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## PALM INTRANET

## Inventor Information for 09/787212

Inventor Name	City	State/Country
UGAJIN, RYUICHI	TOKYO	JAPAN
KUROKI, YOSHIHIKO	KANAGAWA	JAPAN
ISHIBASHI, AKIRA	TOKYO	JAPAN
HIRATA, SHINTARO	KANAGAWA	JAPAN

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## PALM INTRANET

Day : Thursday  
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## Inventor Name Search Result

Your Search was:

Last Name = UGAJIN

First Name = RYUICHI

Application#	Patent#	Status	Date Filed	Title	Inventor Name 31
<u>10398538</u>	Not Issued	020	07/23/2003	FRACTAL STRUCTURE AND ITS PRODUCING METHOD, FUNCTIONAL MATERIAL AND ITS PRODUCING METHOD, AND FUNCTIONAL DEVICE AND ITS PRODUCING METHOD	UGAJIN, RYUICHI
<u>10182486</u>	Not Issued	030	02/03/2003	MULTIPLY-TWISTED HELIX AND FUNCTIONAL MATERIAL	UGAJIN, RYUICHI
<u>10089857</u>	Not Issued	020	04/02/2002	FRACTAL STRUCTURE AND METHOD OF FORMING IT	UGAJIN, RYUICHI
<u>10030857</u>	Not Issued	030	04/29/2002	FRACTAL STRUCTURE AND ITS FORMING METHOD	UGAJIN, RYUICHI
<u>09980314</u>	Not Issued	041	02/26/2002	MULTIPLY-COMPLEXED ONE-DIMENSIONAL STRUCTURE, MULTIPLY-TWISTED HELIX, MULTIPLY-LOOPED RING STRUCTURE AND FUNCTIONAL MATERIAL	UGAJIN, RYUICHI
<u>09977722</u>	<u>6584234</u>	150	10/15/2001	APPARATUS FOR AND METHOD OF PROCESSING IMAGE AND INFORMATION RECORDING MEDIUM	UGAJIN, RYUICHI
<u>09868360</u>	Not Issued	020	01/03/2002	PHASE TRANSITION CONTROL METHOD OF FRACTAL COMBINATION, FRACTAL COMBINATION, FERROMAGNETIC FRACTAL COMBINATION, INFORMATION PROCESSING METHOD, INFORMATION STORING METHOD, INFORMATION STORING MEDIUM, INFORMATION PROCESSING DEVICE AND INFORMATION RECORDING DEVICE	UGAJIN, RYUICHI
<u>09787212</u>	Not Issued	030	07/16/2001	METHOD OF FORMING FRACTAL STRUCTURE	UGAJIN, RYUICHI
<u>09786526</u>	<u>6525337</u>	150	06/11/2001	LIGHT AND/OR ELECTRON ELEMENT	UGAJIN, RYUICHI
<u>09775784</u>	<u>6581002</u>	150	02/02/2001	INFORMATION PROCESSING METHOD AND INFORMATION PROCESSING APPARATUS	UGAJIN, RYUICHI
<u>09210583</u>	<u>6392914</u>	150	12/14/1998	STORAGE DEVICE ENCOMPASSING A DIFFUSION PROCESS AND A DISSIPATION PROCESS OF INFORMATION CARRIERS AND STORAGE METHOD THEREOF	UGAJIN, RYUICHI
<u>09189956</u>	<u>6353689</u>	150	11/12/1998	APPARATUS FOR AND METHOD OF PROCESSING IMAGE AND INFORMATION RECORDING MEDIUM	UGAJIN, RYUICHI
<u>09033465</u>	<u>6020605</u>	150	03/02/1998	QUANTUM BOX STRUCTURE AND CARRIER CONDUCTIVITY MODULATING DEVICE	UGAJIN, RYUICHI
<u>08784411</u>	<u>5831294</u>	150	01/16/1997	QUANTUM BOX STRUCTURE AND CARRIER CONDUCTIVITY MODULATING DEVICE	UGAJIN, RYUICHI
<u>08683137</u>	<u>5608231</u>	150	07/18/1996	FIELD EFFECT TRANSISTOR HAVING CHANNEL WITH PLURAL QUANTUM BOXES ARRANGED IN A COMMON PLANE	UGAJIN, RYUICHI

<a href="#">08574785</a>	<a href="#">5643828</a>	150	12/19/1995	MANUFACTURING METHOD OF A QUANTUM DEVICE	UGAJIN , RYUICHI
<a href="#">08552879</a>	<a href="#">5828090</a>	150	11/03/1995	CHARGE TRANSFER DEVICE	UGAJIN , RYUICHI
<a href="#">08535814</a>	<a href="#">5719407</a>	150	09/28/1995	COLLECTIVE ELEMENT OF QUANTUM BOXES	UGAJIN , RYUICHI
<a href="#">08424024</a>	<a href="#">5663571</a>	150	04/18/1995	QUANTUM MEMORY	UGAJIN , RYUICHI
<a href="#">08369659</a>	Not Issued	166	01/06/1995	QUANTUM BOX STRUCTURE AND CARRIER CONDUCTIVITY MODULATING DEVICE	UGAJIN , RYUICHI
<a href="#">08329495</a>	Not Issued	166	10/26/1994	FIELD EFFECT TRANSISTOR HAVING CHANNEL WITH PLURAL QUANTUM BOXES ARRANGED IN A COMMON PLANE	UGAJIN , RYUICHI
<a href="#">08309888</a>	<a href="#">5512762</a>	150	09/20/1994	QUANTUM DEVICE WITH PLURAL STABLE STATES	UGAJIN , RYUICHI
<a href="#">08197308</a>	Not Issued	166	02/16/1994	COLLECTIVE ELEMENT OF QUANTUM BOXES	UGAJIN , RYUICHI
<a href="#">08172734</a>	<a href="#">5430309</a>	150	12/27/1993	A DATA PROCESSING SYSTEM FORMED OF A COLLECTIVE ELEMENT OF QUANTUM BOXES AND METHOD OF OPERATION THEREOF	UGAJIN , RYUICHI
<a href="#">08171442</a>	Not Issued	161	12/22/1993	IMPROVED SEMICONDUCTOR LIGHT SOURCE	UGAJIN , RYUICHI
<a href="#">08105121</a>	Not Issued	166	08/12/1993	QUANTUM DEVICE AND ITS MANUFACTURING METHOD	UGAJIN , RYUICHI
<a href="#">07957530</a>	<a href="#">5332952</a>	150	10/07/1992	QUANTUM PHASE INTERFERENCE TRANSISTOR	UGAJIN , RYUICHI
<a href="#">07920845</a>	<a href="#">5229320</a>	150	07/28/1992	METHOD FOR FORMING QUANTUM DOTS	UGAJIN , RYUICHI
<a href="#">07894580</a>	<a href="#">5294807</a>	150	06/05/1992	A QUANTUM EFFECT DEVICE IN WHICH CONDUCTION BETWEEN A PLURALITY OF QUANTUM DOTS OR WIRES IS ACHIEVED BY TUNNEL TRANSITION	UGAJIN , RYUICHI
<a href="#">07826459</a>	<a href="#">5289077</a>	150	01/27/1992	MICROELECTRONIC BALLISTIC TRANSISTOR	UGAJIN , RYUICHI
<a href="#">07819492</a>	<a href="#">5204588</a>	150	01/10/1992	QUANTUM PHASE INTERFERENCE TRANSISTOR	UGAJIN , RYUICHI

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## Inventor Name Search Result

Your Search was:

Last Name = KUROKI

First Name = YOSHIHIKO

Application#	Patent#	Status	Date Filed	Title	Inventor Name 7
<a href="#">10181240</a>	Not Issued	020	02/05/2003	SCREEN, ITS MANUFACTURING METHOD AND IMAGE DISPLAY SYSTEM	KUROKI, YOSHIHIKO
<a href="#">09977722</a>	<a href="#">6584234</a>	150	10/15/2001	APPARATUS FOR AND METHOD OF PROCESSING IMAGE AND IDFORMATION RECORDING MEDIUM	KUROKI, YOSHIHIKO
<a href="#">09868360</a>	Not Issued	020	01/03/2002	PHASE TRANSITION CONTROL METHOD OF FRACTAL COMBINATION, FRACTAL COMBINATION, FERROMAGNETIC FRACTAL COMBINATION, INFORMATION PROCESSING METHOD, INFORMATION STORING METHOD, INFORMATION STORING MEDIUM, INFORMATION PROCESSING DEVICE AND INFORMATION RECORDING DEVICE	KUROKI, YOSHIHIKO
<a href="#">09787212</a>	Not Issued	030	07/16/2001	METHOD OF FORMING FRACTAL STRUCTURE	KUROKI, YOSHIHIKO
<a href="#">09786526</a>	<a href="#">6525337</a>	150	06/11/2001	LIGHT AND/OR ELECTRON ELEMENT	KUROKI, YOSHIHIKO
<a href="#">09210583</a>	<a href="#">6392914</a>	150	12/14/1998	STORAGE DEVICE ENCOMPASSING A DIFFUSION PROCESS AND A DISSIPATION PROCESS OF INFORMATION CARRIERS AND STORAGE METHOD THEREOF	KUROKI, YOSHIHIKO
<a href="#">09189956</a>	<a href="#">6353689</a>	150	11/12/1998	APPARATUS FOR AND METHOD OF PROCESSING IMAGE AND INFORMATION RECORDING MEDIUM	KUROKI, YOSHIHIKO

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## Inventor Name Search Result

Your Search was:

Last Name = ISHIBASHI

First Name = AKIRA

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
<a href="#">10635100</a>	Not Issued	019	08/06/2003	OPTICAL WAVEGUIDE, OPTICAL WAVEGUIDE APPARATUS, OPTOMECHANICAL APPARATUS, DETECTING APPARATUS, INFORMATION PROCESSING APPARATUS, INPUT APPARATUS, KEY-INPUT APPARATUS, AND FIBER STRUCTURE	ISHIBASHI, AKIRA
<a href="#">10442523</a>	Not Issued	030	05/21/2003	NOISELESS SURFACE FASTENER MEMBER, NOISELESS SURFACE FASTENER COMBINED WITH THE NOISELESS SURFACE FASTENER MEMBER AND PRODUCT ATTACHED WITH THE SAME NOISELESS SURFACE FASTENER MEMBER OR THE SAME NOISELESS SURFACE FASTENER	ISHIBASHI, AKIRA
<a href="#">10299898</a>	Not Issued	030	11/20/2002	ELECTRO-RHEOLOGICAL COMPOSITION	ISHIBASHI, AKIRA
<a href="#">10285441</a>	Not Issued	041	11/01/2002	RADIATION APPLYING APPARATUS	ISHIBASHI, AKIRA
<a href="#">10149263</a>	Not Issued	030	06/07/2002	NEURON AGGREGATION DEVICE	ISHIBASHI, AKIRA
<a href="#">10145361</a>	Not Issued	041	05/14/2002	LASER STRUCTURE, LIGHT EMITTING DEVICE, DISPLAY UNIT, OPTICAL AMPLIFIER, AND METHOD OF PRODUCING LASER STRUCTURE	ISHIBASHI, AKIRA
<a href="#">10044461</a>	Not Issued	071	10/23/2001	OPTICAL SWITCH AND DISPLAY UNIT	ISHIBASHI, AKIRA
<a href="#">09986627</a>	Not Issued	061	11/09/2001	SLIDER FORMED OF FIBER-REINFORCED THERMOPLASTIC RESIN	ISHIBASHI, AKIRA
<a href="#">09951420</a>	Not Issued	041	09/14/2001	METHOD FOR MANAGING LIFE CYCLES AND SYSTEM FOR THE SAME	ISHIBASHI, AKIRA
<a href="#">09896933</a>	Not Issued	041	06/28/2001	PROCESSING METHOD AND SYSTEM OF DATA MANAGEMENT FOR IC CARD	ISHIBASHI, AKIRA
<a href="#">09895863</a>	Not Issued	030	06/28/2001	METHOD AND SYSTEM FOR MANAGING ACCOUNTS RECEIVABLE AND PAYABLE AND RECORDING MEDIUM FOR STORING PROGRAM TO REALIZE THE METHOD	ISHIBASHI, AKIRA
<a href="#">09895858</a>	Not Issued	030	06/29/2001	SETTLEMENT METHOD AND SYSTEM	ISHIBASHI, AKIRA
<a href="#">09895795</a>	Not Issued	030	06/29/2001	SETTLEMENT SYSTEM WITH IC CARD, IC CARD, METHOD OF SETTLEMENT	ISHIBASHI, AKIRA
<a href="#">09894282</a>	Not Issued	061	06/27/2001	METHOD AND SYSTEM FOR MODELING BUSINESS CARD EXCHANGES IN A POINT-TO-POINT VALUE	ISHIBASHI, AKIRA
<a href="#">09888192</a>	Not Issued	030	06/21/2001	ELECTRONIC COMMERCE GOODS DATA SEARCH METHOD AND SYSTEM WITH THE ADDITION OF DISTRIBUTOR STRATEGY	ISHIBASHI, AKIRA
<a href="#">09864758</a>	<a href="#">6456639</a>	150	05/24/2001	SEMICONDUCTOR LIGHT EMITTING DEVICE WITH II-VI GROUP SEMICONDUCTOR CONTACT LAYER CONTAINING ALKALI METAL IMPURITY, METHOD OF PRODUCING THE SAME, AND OPTICAL DEVICE INCLUDING SAME	ISHIBASHI, AKIRA
<a href="#">09822123</a>	Not Issued	071	03/30/2001	INFORMATION RECEIVING/DISPLAY APPARATUS AND INFORMATION RECEIVING/DISPLAY METHOD	ISHIBASHI, AKIRA
<a href="#">09822062</a>	Not Issued	071	03/30/2001	PHOTON OPERATING DEVICE AND PHOTON OPERATING METHOD	ISHIBASHI, AKIRA
<a href="#">09787212</a>	Not Issued	030	07/16/2001	METHOD OF FORMING FRACTAL STRUCTURE	ISHIBASHI, AKIRA
<a href="#">09648484</a>	Not Issued	041	08/28/2000	PRODUCT RECYCLE FEE PAYMENT METHOD AND SYSTEM	ISHIBASHI, AKIRA
<a href="#">09616687</a>	<a href="#">6438298</a>	150	07/14/2000	OPTICAL DEVICE	ISHIBASHI, AKIRA
<a href="#">09597837</a>	Not Issued	089	06/20/2000	FUNCTIONAL MATERIAL, PRODUCTION METHOD THEREFOR, FUNCTIONAL STRUCTURE, AND OPTICAL FUNCTIONAL DEVICE	ISHIBASHI, AKIRA

<a href="#">09590647</a>	<a href="#">RE38339</a>	150	06/08/2000	SEMICONDUCTOR LASER	ISHIBASHI, AKIRA
<a href="#">09529675</a>	<a href="#">6355669</a>	150	04/18/2000	RETINOIC ACID AGONISTS AS PREVENTIVE AND THERAPEUTIC AGENTS FOR NEPHRITIS	ISHIBASHI, AKIRA
<a href="#">09484228</a>	Not Issued	041	01/18/2000	FUNCTIONAL MATERIAL AND FUNCTIONAL ELEMENT	ISHIBASHI, AKIRA
<a href="#">09210539</a>	Not Issued	083	12/14/1998	FORMED ARTICLE OF BIODEGRADABLE RESIN	ISHIBASHI, AKIRA
<a href="#">08967095</a>	<a href="#">5898662</a>	150	11/10/1997	SEMICONDUCTOR LIGHT EMITTING DEVICE, ITS MANUFACTURING METHOD AND OPTICAL RECORDING AND/OR REPRODUCING APPARATUS	ISHIBASHI, AKIRA
<a href="#">08691536</a>	<a href="#">5665977</a>	150	08/02/1996	SEMICONDUCTOR LIGHT EMITTING DEVICE WITH DEFECT DECOMPOSING AND BLOCKING LAYERS	ISHIBASHI, AKIRA
<a href="#">08686473</a>	<a href="#">5732099</a>	150	07/25/1996	SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI, AKIRA
<a href="#">08429850</a>	<a href="#">5567960</a>	150	04/27/1995	II/VI-COMPOUND SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI, AKIRA
<a href="#">08389790</a>	Not Issued	166	02/16/1995	SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI, AKIRA
<a href="#">08150163</a>	Not Issued	166	11/30/1993	HONEYCOMB PANEL AND PROCESS FOR PRODUCING SAME	ISHIBASHI, AKIRA
<a href="#">08149954</a>	<a href="#">5412223</a>	250	11/10/1993	SEMICONDUCTOR DEVICE EXPLOITING A QUANTUM INTERFERENCE EFFECT	ISHIBASHI, AKIRA
<a href="#">08140456</a>	Not Issued	166	10/25/1993	SEMICONDUCTOR DEVICE EXPLOITING A QUANTUM INTERFERENCE EFFECT	ISHIBASHI, AKIRA
<a href="#">07799936</a>	Not Issued	168	11/29/1991	INVERTER APPARATUS PROVIDED WITH ELECTRIC DISCHARGE CONTROL CIRCUIT OF DC SMOOTHING CAPACITOR AND METHOD OF CONTROLLING THE SAME	ISHIBASHI, AKIRA
<a href="#">07639325</a>	<a href="#">5171718</a>	150	01/09/1991	METHOD FOR FORMING A FINE PATTERN BY USING A PATTERNED RESIST LAYER	ISHIBASHI, AKIRA
<a href="#">07511945</a>	<a href="#">5053526</a>	150	04/16/1990	PHARMACEUTICALS CONTAINING PROSTAGLANDIN I2	ISHIBASHI, AKIRA
<a href="#">07423190</a>	<a href="#">5093384</a>	150	10/18/1989	HEAT INSULATOR MADE OF SHAPE MEMORY POLYMER FOAM	ISHIBASHI, AKIRA
<a href="#">07412479</a>	Not Issued	166	09/26/1989	METHOD FOR FORMING A PATTERN	ISHIBASHI, AKIRA
<a href="#">07394809</a>	<a href="#">4921471</a>	250	08/17/1989	APPARATUS FOR SETTING A TABLE FOR A BELT-DRIVEN MACHINE TOOL	ISHIBASHI, AKIRA
<a href="#">07293333</a>	<a href="#">4937204</a>	150	01/04/1989	METHOD OF MAKING SUPERLATTICE HETEROJUNCTION BIPOLAR DEVICE	ISHIBASHI, AKIRA
<a href="#">07275755</a>	Not Issued	166	11/23/1988	METHOD FOR FORMING A FINE PATTERN BY USING A PATTERNED RESIST LAYER	ISHIBASHI, AKIRA
<a href="#">07271911</a>	<a href="#">4888622</a>	150	11/16/1988	SUPERCONDUCTOR ELECTRON DEVICE	ISHIBASHI, AKIRA
<a href="#">07232832</a>	<a href="#">4912882</a>	250	08/16/1988	METHOD OF REDUCING LATERAL FORCE VARIATION OF TIRE	ISHIBASHI, AKIRA
<a href="#">07099779</a>	Not Issued	166	09/22/1987	PHARMACEUTICALS CONTAINING PROSTAGLANDIN I2	ISHIBASHI, AKIRA
<a href="#">06852756</a>	<a href="#">4691154</a>	150	04/16/1986	STEPPING MOTOR CONTROL SYSTEM	ISHIBASHI, AKIRA
<a href="#">06839712</a>	<a href="#">4835579</a>	150	03/13/1986	SEMICONDUCTOR APPARATUS	ISHIBASHI, AKIRA
<a href="#">06753708</a>	<a href="#">4668682</a>	150	07/10/1985	2-PHENYLALKYL-3-AMINOALKYL-4(3H)-QUINAZOLINONE COMPOUND	ISHIBASHI, AKIRA
<a href="#">06481150</a>	<a href="#">4527214</a>	150	04/01/1983	POWER INVERTER WITH OVERLOAD PROTECTION APPARATUS	ISHIBASHI, AKIRA
<a href="#">06342649</a>	<a href="#">4451112</a>	150	01/25/1982	METHOD AND APPARATUS FOR CONTROLLING AC MOTOR	ISHIBASHI, AKIRA
<a href="#">06258454</a>	Not Issued	163	04/28/1981	INVERTER	ISHIBASHI, AKIRA

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## Inventor Name Search Result

Your Search was:

Last Name = ISHIBASHI

First Name = AKIRA

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
<a href="#">09360687</a>	<a href="#">6321983</a>	150	07/26/1999	METHOD FOR MANAGING LIFE CYCLES AND SYSTEM FOR THE SAME	ISHIBASHI , AKIRA
<a href="#">09324766</a>	<a href="#">6383622</a>	150	06/03/1999	A SLIDER FORMED OF FIBER-REINFORCED THERMOPLASTIC RESIN	ISHIBASHI , AKIRA
<a href="#">09269924</a>	<a href="#">6258811</a>	150	04/02/1999	METHODS FOR PREVENTING, INHIBITING OR TREATING GRAFT REJECTION REACTIONS IN GRAFT-VERSUS-HOST DISEASE (GVHD) AND ORGAN TRANSPLANTATION	ISHIBASHI , AKIRA
<a href="#">09260865</a>	<a href="#">RE37177</a>	150	03/01/1999	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">09190436</a>	<a href="#">6177690</a>	150	11/13/1998	SEMICONDUCTOR LIGHT EMITTING DEVICE HAVING A P-N OR P-I-N JUNCTION	ISHIBASHI , AKIRA
<a href="#">09048048</a>	<a href="#">6414975</a>	150	03/26/1998	SEMICONDUCTOR LIGHT EMITTING DEVICE WITH II-VI GROUP SEMICONDUCTOR CONTACT LAYER CONTAINING ALKALI METAL IMPURITY, METHOD OF PRODUCING SAME, AND OPTICAL DEVICE INCLUDING SAME	ISHIBASHI , AKIRA
<a href="#">09030862</a>	<a href="#">5909459</a>	150	02/26/1998	SURFACE-EMITTING SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI , AKIRA
<a href="#">08987105</a>	<a href="#">6031244</a>	150	12/08/1997	LUMINESCENT SEMICONDUCTOR DEVICE WITH A ANTIDIFFUSION LAYER ON ACTIVE LAYER SURFACE	ISHIBASHI , AKIRA
<a href="#">08878418</a>	<a href="#">6222203</a>	150	06/18/1997	SELF LUMINOUS DISPLAY DEVICE HAVING LIGHT EMISSION SOURCES HAVING SUBSTANTIALLY NON-OVERLAPPING SPECTRA LEVELS	ISHIBASHI , AKIRA
<a href="#">08832065</a>	<a href="#">5740193</a>	150	04/02/1997	SEMICONDUCTOR LIGHT-EMITTING DEVICE	ISHIBASHI , AKIRA
<a href="#">08829214</a>	<a href="#">5872023</a>	150	03/31/1997	METHOD OF FABRICATING OF LIGHT EMITTING DEVICE WITH CONTROLLED LATTICE MISMATCH	ISHIBASHI , AKIRA
<a href="#">08829064</a>	<a href="#">5764672</a>	150	03/31/1997	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">08826108</a>	<a href="#">5828086</a>	250	03/24/1997	SEMICONDUCTOR LIGHT EMITTING DEVICE WITH A MG SUPERLATTICE STRUCTURE	ISHIBASHI , AKIRA
<a href="#">08769710</a>	Not Issued	161	12/18/1996	SURFACE-EMITTING SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI , AKIRA
<a href="#">08719698</a>	<a href="#">5811831</a>	150	09/27/1996	SEMICONDUCTOR DEVICE EXPLOITING A QUANTUM INTERFERENCE EFFECT	ISHIBASHI , AKIRA
<a href="#">08591832</a>	<a href="#">5640409</a>	150	01/25/1996	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">08570376</a>	<a href="#">5633514</a>	150	12/11/1995	SEMICONDUCTOR LIGHT EMITTING DEVICE WITH LATTICE-MATCHING AND LATTICE- MISMATCHING	ISHIBASHI , AKIRA
<a href="#">08508966</a>	<a href="#">5657336</a>	150	07/28/1995	SEMICONDUCTOR LIGHT-EMITTING DEVICE	ISHIBASHI , AKIRA
<a href="#">08501907</a>	Not Issued	166	07/13/1995	SEMICONDUCTOR DEVICE EXPLOITING A QUANTUM INTERFERENCE EFFECT	ISHIBASHI , AKIRA
<a href="#">08499894</a>	<a href="#">5617446</a>	150	07/11/1995	SURFACE-EMITTING SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI , AKIRA
<a href="#">08498438</a>	<a href="#">5597740</a>	150	07/05/1995	SEMICONDUCTOR DISPLAY DEVICE AND A METHOD OF FABRICATING THE SAME	ISHIBASHI , AKIRA
<a href="#">08485884</a>	<a href="#">5635306</a>	150	06/07/1995	HONEYCOMB PANEL AND PROCESS FOR PRODUCING SAME	ISHIBASHI , AKIRA
<a href="#">08338087</a>	<a href="#">5506855</a>	150	11/09/1994	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">08337439</a>	Not Issued	166	11/08/1994	POLYMERIZABLE MONOMER CONTAINING ELECTROLYTICALLY POLYMERIZABLE GROUP, POLYMER THEREOF, AND APPLICATION OF THE POLYMER	ISHIBASHI , AKIRA
<a href="#">08299655</a>	Not Issued	166	09/02/1994	SEMICONDUCTOR LIGHT EMITTING DEVICE	ISHIBASHI , AKIRA

<a href="#">08275374</a>	<a href="#">5625634</a>	150	07/15/1994	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">08271132</a>	Not Issued	166	07/06/1994	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA
<a href="#">08205082</a>	<a href="#">5465202</a>	150	03/03/1994	INVERTER APPARATUS PROVIDED WITH ELECTRIC DISCHARGE CONTROL CIRCUIT OF DC SMOOTHING CAPACITOR AND METHOD OF CONTROLLING THE SAME	ISHIBASHI , AKIRA
<a href="#">08197310</a>	<a href="#">5459337</a>	250	02/16/1994	SEMICONDUCTOR DISPLAY DEVICE WITH RED, GREEN AND BLUE EMISSION	ISHIBASHI , AKIRA
<a href="#">08170805</a>	<a href="#">5419854</a>	150	12/21/1993	NOVEL ORGANIC SOLID ELECTROLYTE AND COLORING-DISCOLORING DEVICE USING THE SAME	ISHIBASHI , AKIRA
<a href="#">08070204</a>	<a href="#">5418374</a>	150	06/02/1993	SEMICONDUCTOR DEVICE HAVING AN ACTIVE LAYER WITH REGIONS WITH DIFFERENT BANDGAPS	ISHIBASHI , AKIRA
<a href="#">08011202</a>	<a href="#">5908306</a>	150	01/29/1993	METHOD FOR MAKING A SEMICONDUCTOR DEVICE EXPLOITING A QUANTUM INTERFERENCES EFFECT	ISHIBASHI , AKIRA
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<a href="#">07710462</a>	<a href="#">5306890</a>	150	06/05/1991	METHOD OF PRODUCING CORRUGATED METAL SHEETING AND METHOD OF PRODUCING HONEYCOMB STRUCTURE THEREFROM FOR CARRYING CATALYTIC AGENTS USED FOR PURIFYING EXHAUST GASES	ISHIBASHI , AKIRA
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<a href="#">07206943</a>	Not Issued	166	06/13/1988	PHARMACEUTICALS CONTAINING PROSTAGLANDIN I2	ISHIBASHI , AKIRA
<a href="#">07066440</a>	<a href="#">4783992</a>	150	06/26/1987	METHOD OF DETECTING CONFIGURATION OF TIRE	ISHIBASHI , AKIRA
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<u>08884071</u>	<u>5789600</u>	250	06/27/1997	POLYMERIZABLE MONOMER CONTAINING ELECTROLYTICALLY POLYMERIZABLE GROUP, POLYMER THEREOF, AND APPLICATION OF THE POLYMER	ISHIBASHI , AKIRA
<u>08338087</u>	<u>5506855</u>	150	11/09/1994	SEMICONDUCTOR LASER	ISHIBASHI , AKIRA

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Application#	Patent#	Status	Date Filed	Title	Inventor Name 2
<u>09980314</u>	Not Issued	041	02/26/2002	MULTIPLY-COMPLEXED ONE-DIMENSIONAL STRUCTURE, MULTIPLY-TWISTED HELIX, MULTIPLY-LOOPED RING STRUCTURE AND FUNCTIONAL MATERIAL	HIRATA, SHINTARO
<u>09787212</u>	Not Issued	030	07/16/2001	METHOD OF FORMING FRACTAL STRUCTURE	HIRATA, SHINTARO

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**1 Reduction in power system load data training sets size using fractal approximation theory**
*Indjic, D.;*

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**2 Annealing networks and fractal landscapes**
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*Chakraborty, B.; Sawada, Y.;*

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**6 Modeling MBE RHEED signals using PCA and neural networks**
*Brown, T.; Lee, K.; Dagnall, G.; Kromann, R.; Bicknell-Tassius, R.; Brown, A.; Dorsey, J.; May, G.;*

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*Bressloff, P.C.; Stark, J.;*

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*Imanishi, D.; Hamaguchi, Y.; Yamanaka, H.; Nagatake, T.; Kitamura, T.; Moriya, Y.; Ito, Y.; Sato, Y.; Ito, S.; Hirata, S.;*  
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[Print Format](#)**Novel logic device using coupled quantum dots**

Nomoto, K. Ugajin, R. Suzuki, T. Hase, I.

Sony Corp. Res. Center, Yokohama;

*This paper appears in: Electronics Letters*

Publication Date: 22 Jul 1993

On page(s): 1380-1381

Volume: 29, Issue: 15

ISSN: 0013-5194

References Cited: 5

CODEN: ELLEAK

INSPEC Accession Number: 4495368

**Abstract:**

A novel logic device using coupled quantum dots is proposed. The authors show that the (N)OR/(N)AND functions can be performed simultaneously by a single electron tunnelling between the quantum dots, if electron-electron interaction is taken into account. Data input and output are performed by irradiation and absorption of photons, respectively. The device size, the operation temperature and speed are briefly discussed

**Index Terms:**

[logic devices](#) [semiconductor quantum dots](#) [AND](#) [NANO](#) [NOR](#) [OR](#) [coupled quantum dots](#) [electron tunnelling](#) [electron-electron interaction](#) [logic device](#)

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*Ishida, T.; Kuroki, Y.; Yamaguchi, J.;*  
Intelligent Robots and Systems, 2003. (IROS 2003). Proceedings. 2003 IEEE/RSJ International Conference on , Volume: 2 , Oct. 27-31, 2003  
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[\[Abstract\]](#) [\[PDF Full-Text \(672 KB\)\]](#) **IEEE CNF****2 Motion creating system for a small biped entertainment robot**

*Kuroki, Y.; Blank, B.; Mikami, T.; Mayeux, P.; Miyamoto, A.; Playter, R.; Nagasaka, K.; Raibert, M.; Nagano, M.; Yamaguchi, J.;*  
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*Kuroki, Y.; Fujita, M.; Ishida, T.; Nagasaka, K.; Yamaguchi, J.;*  
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[Using a Neural Network to Learn General Knowledge in a .. - Reategui, Campbell.. \(1995\)](#) (Correct)

(1 citation)

**network** is interpreted and stored in memory **structures** called diagnosis descriptors. Each descriptorUsing a **Neural Network** to Learn General Knowledge in aUsing a **Neural Network** to Learn General Knowledge in a Case-Based

www.cs.ucl.ac.uk/staff/E.Reategui/publications/iccbr-95.ps

[Using Neural Networks for Descriptive Statistical Analysis of.. - Tirri \(1999\)](#) (Correct)called nodes, which are linked together to form a **structure** (called the architecture) This **structure**Association (Chicago, IL, USA, March 1997) Using **Neural Networks** for Descriptive Statistical Analysis of(Chicago, IL, USA, March 1997) Using **Neural Networks** for Descriptive Statistical Analysis of

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[Constructive Theory Refinement in Knowledge Based Neural.. - Parekh, Honavar \(1998\)](#) (Correct) (1 citation)into a format that highlights the hierarchical **structure** of the domain theory. In particular theConstructive Theory Refinement in Knowledge Based **Neural Networks** Rajesh Parekh & Vasant HonavarTheory Refinement in Knowledge Based **Neural Networks** Rajesh Parekh & Vasant Honavar Artificial

www.cs.iastate.edu/~honavar/Papers/parekh-ijcnn98.ps

[Synthesizing Regularity Exposing Attributes in Large Protein.. - Maza \(1993\)](#) (Correct) (4 citations)databases. After processing primary and secondary **structure** data, this system discovers an amino acid

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www.aiai.ed.ac.uk/~jussi/pub/92-nnai.ps.gz

[A Knowledge Base for a Neural Guidance System - Krosley, Misra](#) (Correct)architecture. Section 2 describes some data **structures** that will make it possible to implement anA Knowledge Base for a **Neural Guidance System** Ramon Krosley Manavendra Misraas an expert system implemented as a **neural network**. The use of a **neural** architecture, rather than

kafanchan.mines.colorado.edu/pub/papers.dir/mcs9318.ps.Z

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 College Park, MD 20742 will search the overall **structure** of state space for a coarse minimum, while  
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[www.neci.nj.nec.com/homepages/giles/papers/UMD-CS-TR-3322.synaptic.noise.recurrent.nets.ps.Z](http://www.neci.nj.nec.com/homepages/giles/papers/UMD-CS-TR-3322.synaptic.noise.recurrent.nets.ps.Z)

A Gradient Descent Method for a Neural Fractal Memory - Melnik, Pollack (1998) (Correct)  
 1 A Gradient Descent Method for a **Neural Fractal** Memory Ofer Melnik and Jordan Pollack, Volen  
 the **network** dynamics to describe complex data **structures** such as trees and lists. We employ a different  
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 A complex **network** only makes sense if the **network structure** somehow mirrors the **structure** of the task.  
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Navigating With an Animal Brain: A Neural Network for.. - Gaussier, Zrehen (1994) (Correct) (1 citation)  
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 nodes. were evaluated. As an example we give the **structure** of an Elman **network** in Figure 2 which has only  
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 is tested in the domain of protein secondary **structure** prediction, where a set of domain rules, the  
 for the incremental development of knowledge-based **neural** systems which incorporate state information about  
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[www.cs.fsu.edu/~leblanc/smc97.ps](http://www.cs.fsu.edu/~leblanc/smc97.ps)

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 efficiently utilizing modular and hierarchical **structures** of symbol systems (Newell, 1980)However, it  
 scheme -the so-called mixture of recurrent **neural** net (RNN) experts -in which a set of RNN  
 The revised version is in press. in **Neural Networks**, Special Issue 1999. 1 Introduction How can  
[www.csl.sony.co.jp/person/tani/articulation.ps.Z](http://www.csl.sony.co.jp/person/tani/articulation.ps.Z)

Qualitative Pose Estimation Using An Artificial Neural Network - Racz, Dubrawski (Correct)  
 Fuzzy-Artmap Art Is A Family Of **Neural Network Structures**, Based On The Adaptive Resonance Theory [2]  
 Qualitative Pose Estimation Using An Artificial **Neural Network** Racz, J.Dubrawski, A. Institute Of  
 Pose Estimation Using An Artificial **Neural Network** Racz, J.Dubrawski, A. Institute Of  
[www.cs.cmu.edu/afs/cs.cmu.edu/user/awd/www/icar95\\_racz\\_dubrawski.ps.gz](http://www.cs.cmu.edu/afs/cs.cmu.edu/user/awd/www/icar95_racz_dubrawski.ps.gz)

Rule Refinement using Expert Networks - LeBlanc, Lacher, Adair, al. (Correct)  
 are not required to have any sort of layer **structure**. An expert **network** is a computational **network**  
 FL 32306 Abstract Expert **networks** are **networks** of **neural** objects derived from expert systems. The hybrid  
 Rule Refinement using Expert **Networks** Cathie LeBlanc Department of Computer Science

[oz.plymouth.edu/~cleblanc/Docs/nips96.ps](http://oz.plymouth.edu/~cleblanc/Docs/nips96.ps)

[A Fuzzy-Neural Network Based on the Backpropagation Algorithm - Lippe Th \(Correct\)](#)

zero point, and there are small variations in the **structure**. To 3: The jumping out of local minimums is

[A Fuzzy-Neural Network Based on the Backpropagation Algorithm](#)

[A Fuzzy-Neural Network Based on the Backpropagation Algorithm W.M.](#)

[wwwmath.uni-muenster.de/math/inst/info/Institutsberichte/9510bericht.ps](http://wwwmath.uni-muenster.de/math/inst/info/Institutsberichte/9510bericht.ps)

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# 1 [Performance evaluation of multiple time scale TCP under self-similar traffic conditions](#)

Kihong Park, Tsunyi Tuan

 April 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 2

 Full text available: [pdf\(264.71 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Measurements of network traffic have shown that self-similarity is a ubiquitous phenomenon spanning across diverse network environments. In previous work, we have explored the feasibility of exploiting long-range correlation structure in self-similar traffic for congestion control. We have advanced the framework of multiple time scale congestion control and shown its effectiveness at enhancing performance for rate-based feedback control. In this article, we extend the multiple time scale co...

**Keywords:** TCP, congestion control, multiple time scale, network protocols, performance evaluation, self-similar traffic, simulation

# 2 [Pattern recognition with a pulsed neural network](#)

Judith Dayhoff

 May 1991 **Proceedings of the conference on Analysis of neural network applications**

 Full text available: [pdf\(1.16 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

# 3 [Critical issues in mapping neural networks on message-passing multicomputers](#)

J. Ghosh, K. Hwang

 May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture**, Volume 16 Issue 2

 Full text available: [pdf\(1.05 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Connectionist models such as artificial neural systems, offer an intrinsically concurrent computational paradigm. We investigate the architectural requirements for efficiently simulating large neural networks on a multicomputer system with thousands of fine-grained processors and distributed memory. First, models for characterizing the structure of a neural network and the function of individual cells are developed. These models provide guidelines for efficiently mapping the network onto mu ...

# 4 [A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks](#)

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin

 February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

 Full text available: [pdf\(342.90 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

# 5 [WSQ/DSQ: a practical approach for combined querying of databases and the Web](#)

Roy Goldman, Jennifer Widom

 May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

 Full text available: [pdf\(223.65 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

# 6 [Computing with structured connectionist networks](#)

Jerome A. Feldman, Mark A. Fanty, Nigel H. Goddard, Kenton J. Lynne

 February 1988 **Communications of the ACM**, Volume 31 Issue 2

 Full text available: [pdf\(1.93 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The design and applications of massively parallel computational models could lead to dramatic advances in the ability to automate complex tasks such as those found in artificial intelligence.

# 7 [NeuroAnimator: fast neural network emulation and control of physics-based models](#)

Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton

 July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

 Full text available: [pdf\(28.26 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

8 [PLEXUS—an on-line system for modeling neural networks](#)

J. C. Dill, D. L. Randall, I. Richer

September 1968 **Communications of the ACM**, Volume 11 Issue 9

Full text available: [pdf\(926.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A description is presented of PLEXUS, a system which enables a user to construct and specify a neural network, to analyze the output data produced by the network, and to store and retrieve networks and data from a library. The system, operated entirely from a digital display unit, interacts directly with the user and permits easy and rapid transitions between the various phases of the modeling process. PLEXUS is designed to complement neurophysiological research so that the systematic devel ...

**Keywords:** biological modeling, data analysis, discrete system simulation, library systems, modeling, network simulation, neural networks, neurophysiological models, on-line simulation, simulation

9 [Neural networks and dynamic complex systems](#)

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong

March 1989 **Proceedings of the 22nd annual symposium on Simulation**

Full text available: [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

10 [Constructing deterministic finite-state automata in recurrent neural networks](#)

Christian W. Omlin, C. Lee Giles

November 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 6

Full text available: [pdf\(646.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recurrent neural networks that are trained to behave like deterministic finite-state automata (DFAs) can show deteriorating performance when tested on long strings. This deteriorating performance can be attributed to the instability of the internal representation of the learned DFA states. The use of a sigmoidal discriminant function together with the recurrent structure contribute to this instability. We prove that a simple algorithm can construct second-o ...

**Keywords:** automata, connectionism, knowledge encoding, neural networks, nonlinear dynamics, recurrent neural networks, rules, stability

11 [Effect of data compression of ERP sign preprocessed by FWT algorithm upon a neural network classifier](#)

S. DasGupta, M. Hohenberger, Len Trejo, T. Kaylani

April 1990 **ACM SIGSIM Simulation Digest, Proceedings of the 23rd annual symposium on Simulation**, Volume 20 Issue 4

Full text available: [pdf\(648.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Earlier research at the Navy Personnel Research and Development Center revealed that measures of the brain response to sensory stimuli, known as Event Related Potentials (ERP) may be used to assess unique process-related variance that is dependent upon human performance. For example, it was found that the sensitivity of individual subjects to dynamic color contrast in computer displays can be assessed by visual ERP's. It has also been observed that RMS measures of the P1-N1-P2 complex and t ...

12 [Real time application of artificial neural network for incipient fault detection of induction machines](#)

Mo-yuen Chow, Sui Oi Yee

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: [pdf\(751.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-order ...

13 [Analysis of a biologically motivated neural network for character recognition](#)

M. D. Garriss, R. A. Wilkinson, C. L. Wilson

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

14 [OCB: A block-cipher mode of operation for efficient authenticated encryption](#)

Phillip Rogaway, Mihir Bellare, John Black

August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 3

Full text available: [pdf\(568.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



We describe a parallelizable block-cipher mode of operation that simultaneously provides privacy and authenticity. OCB encrypts-and-authenticates a nonempty string  $M$  &in;  $\{0, 1\}^*$  using  $\lceil \frac{|M|}{n} \rceil + 2$  block-cipher invocations, where  $n$  is the block length of the underlying block cipher. Additional overhead is small. OCB refines a scheme, IAPM, suggested by Charanjit Jutla. Desirable properties of OCB include the ability to encrypt a bi ...

**Keywords:** AES, authenticity, block-cipher usage, cryptography, encryption, integrity, modes of operation, provable security, standards

#### 15 [A constructive algorithm for neural networks that generalize](#)

Alvin Surkan, Colin Campbell

January 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on Share knowledge share success**, Volume 28 Issue 4

Full text available: [pdf\(650.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

APL functions were designed to describe a constructive algorithm that synthesizes a neural network while optimizing its ability to generalize. Algorithms are implemented in programs to discover networks of binary weights that assign unfamiliar, high-dimension binary patterns to their most similar classes. Constructive algorithms that create networks are important for the design of classifiers based on array-processors made from fast two-level circuits. APL is an effective tool for the exposition ...

#### 16 [KDD-2002 workshop report fractals and self-similarity in data mining: issue and approaches](#)

Jafar Adibi, Christos Faloutsos

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: [pdf\(62.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

In this report we provide a summary of the first workshop on application of self-similarity and fractals in data mining: issues and approaches held in conjunction with ACM SIGKDD 2002, July 23 at Edmonton, Alberta, Canada.

**Keywords:** data mining, fractals, self-similarity

#### 17 [Classification artificial neural systems for genome research](#)

C. H. Wu, G. M. Whitson, C.-T. Hsiao, C.-F. Huang

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available: [pdf\(601.08 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

#### 18 [Pareto-optimal formulations for cost versus colorimetric accuracy trade-offs in printer color management](#)

D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan

April 2002 **ACM Transactions on Graphics (TOG)**, Volume 21 Issue 2

Full text available: [pdf\(9.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Color management for the printing of digital images is a challenging task, due primarily to nonlinear ink-mixing behavior and the presence of redundant solutions for print devices with more than three inks. Algorithms for the conversion of image data to printer-specific format are typically designed to achieve a single predetermined rendering intent, such as colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion schemes based on a general Pareto-optimal formul ...

**Keywords:** Artificial Neural Networks, CMYK, Color Conversion, Color Fidelity, Color Management, Color Matching, Color Printing, Color Space Transformation, Optimization, Pareto-optimization, Tetrahedral Interpolation

#### 19 [A survey on wavelet applications in data mining](#)

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogiwara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: [pdf\(330.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this paper is to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

#### 20 [A discrete-time neural network multitarget tracking data association algorithm](#)

Oluseyi Olurotimi

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: [pdf\(862.55 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐**21** [A comparative study of neural network algorithms applied to optical character recognition](#)

P. Patrick van der Smagt

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**Full text available: [pdf](#)(1.15 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three simple general purpose networks are tested for pattern classification on an optical character recognition problem. The feed-forward (multi-layer perceptron) network, the Hopfield network and a competitive learning network are compared. The input patterns are obtained by optically scanning images of printed digits and uppercase letters. The resulting data is used as input for the networks with two-state input nodes; for others, features are extracted by template matching and pi ...

**22** [Special issue on Machine learning methods for text and images: A neural probabilistic language model](#)

Yoshua Bengio, Réjean Ducharme, Pascal Vincent, Christian Janvin

March 2003 **The Journal of Machine Learning Research**, Volume 3Full text available: [pdf](#)(128.42 KB)Additional Information: [full citation](#), [abstract](#)

A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the **curse of dimensionality**: a word sequence on which the model will be tested is likely to be different from all the word sequences seen during training. Traditional but very successful approaches based on n-grams obtain generalization by concatenating very short overlapping sequences seen in the training set. We propose to fig ...

**23** [Neural network approach to solving the Traveling Salesman Problem](#)

Ralph Reilly, Plamen Tchimev

October 2003 **The Journal of Computing in Small Colleges**, Volume 19 Issue 1Full text available: [pdf](#)(233.89 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Traveling Salesman Problem involves mapping a route for a salesman to visit each city, without stopping in the same city twice, in the shortest route possible. A map of Germany is used as the test data for the study in this report.

**24** [Poster papers: Extracting decision trees from trained neural networks](#)

Olca Boz

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available: [pdf](#)(683.99 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Neural Networks are successful in acquiring hidden knowledge in datasets. Their biggest weakness is that the knowledge they acquire is represented in a form not understandable to humans. Researchers tried to address this problem by extracting rules from trained Neural Networks. Most of the proposed rule extraction methods required specialized type of Neural Networks; some required binary inputs and some were computationally expensive. Craven proposed extracting MofN type Decision Trees from Neur ...

**25** [Knowledge discovery based on neural networks](#)

LiMin Fu

November 1999 **Communications of the ACM**, Volume 42 Issue 11Full text available: [pdf](#)(89.84 KB) [html](#)(20.16 KB)Additional Information: [full citation](#), [references](#), [index terms](#)**26** [Data clustering: a review](#)

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available: [pdf](#)(636.24 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords:** cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

27 Session 9A: System level test and reliability: Accurate CMOS bridge fault modeling with neural network-based VHDL saboteurs

Don Shaw, Dhamin Al-Khalili, Côme Rozon

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Full text available: [pdf\(137.79 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a new bridge fault model that is based on a multiple layer feedforward neural network and implemented within the framework of a VHDL saboteur cell. Empirical evidence and experimental results show that it satisfies a prescribed set of bridge fault model criteria better than existing approaches. The new model computes exact bridged node voltages and propagation delay times with due attention to surrounding circuit elements. This is significant since, with the exception of full ...

**Keywords:** CMOS ICs, VHDL, bridge defects, fault models, fault simulation, neural networks

28 Pattern discovery and forecasting: F4: large-scale automated forecasting using fractals

Deepayan Chakrabarti, Christos Faloutsos

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: [pdf\(374.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Forecasting has attracted a lot of research interest, with very successful methods for periodic time series. Here, we propose a fast, automated method to do non-linear forecasting, for both periodic as well as *chaotic* time series. We use the technique of *delay coordinate embedding*, which needs several parameters; our contribution is the automated way of setting these parameters, using the concept of 'intrinsic dimensionality'. Our operational system has fast and scalable algorithms ...

**Keywords:** automated forecasting, fractals, time series

29 Visualisation of social networks using CAVALIER

Anthony Dekker

December 2001 **Australian symposium on Information visualisation - Volume 9**

Full text available: [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Social Network Analysis is an approach to analysing organisations focusing on relationships as the most important aspect. In this paper we discuss visualisation techniques for Social Network Analysis, including spring-embedding and simulated annealing techniques. We introduce a visualisation technique based on Kohonen neural networks, and also introduce social flow diagrams for demonstrating the relationship between two forms of conceptual distance.

**Keywords:** Kohonen neural networks, social network analysis

30 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

31 Hypercube algorithms for neural network simulation: the Crystal Accumulator and the Crystal Router

G. C. Fox, W. Furmanski

January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**

Full text available: [pdf\(466.00 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We discuss communication algorithms relevant for neural network modeling on distributed memory concurrent computers with a hypercube topology. Full, intermediate (medium range) and sparse network connectivities are analyzed. We point out that the flexible hypercube topology allows for the efficient implementation of the broad class of network algorithms with variety of connectivity patterns. We find algorithms index, crystal\_router, fold an ...

32 Teaching neural networks using LEGO handy board robots in an artificial intelligence course

Susan P. Imberman

January 2003 **ACM SIGCSE Bulletin , Proceedings of the 34th SIGCSE technical symposium on Computer science education**, Volume 35 Issue 1

Full text available: [pdf\(211.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we propose a novel method for teaching neural networks with back propagation in an undergraduate Artificial Intelligence course. We use an agent based approach in the course, as outlined in the textbook Artificial Intelligence A Modern Approach by Stuart Russell and Peter Norvig [7]. The students build a robot agent whose task is to learn path-following behavior with a neural network. Robot agents are constructed from standard LEGO pieces and use the MIT Handy Board as a controller ...

**Keywords:** artificial intelligence, back propagation, handy board, neural networks, robotics

33 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: [pdf\(4.28 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

**Keywords:** Face recognition, person identification

**34** [Improved splice site detection in Genie](#)

Martin G. Reese, Frank H. Eeckman, David Kulp, David Haussler

January 1997 **Proceedings of the first annual international conference on Computational molecular biology**

Full text available: [pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**35** [What have we learnt from using real parallel machines to solve real problems?](#)

G. C. Fox

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Full text available: [pdf\(4.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

**36** [A comparative study of fuzzy versus "fixed" thresholds for robust queue management in cell-switching networks](#)

Allen R. Bonde, Sumit Ghosh

August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

Full text available: [pdf\(976.98 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**37** [Interactive manipulation of rigid body simulations](#)

Jovan Popović, Steven M. Seitz, Michael Erdmann, Zoran Popović, Andrew Witkin

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available: [pdf\(886.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Physical simulation of dynamic objects has become commonplace in computer graphics because it produces highly realistic animations. In this paradigm the animator provides few physical parameters such as the objects' initial positions and velocities, and the simulator automatically generates realistic motions. The resulting motion, however, is difficult to control because even a small adjustment of the input parameters can drastically affect the subsequent motion. Furthermore, the animator o ...

**Keywords:** animation with constraints, physically based animation

**38** [Exploration of text collections with hierarchical feature maps](#)

Dieter Merkl

July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 31 Issue S1

Full text available: [pdf\(1.65 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**39** [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

**Keywords:** n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

**40** [Adaptivity in agent-based routing for data networks](#)

David H. Wolpert, Sergery Kirshner, Chris J. Merz, Kagan Tumer

June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: [pdf\(841.21 KB\)](#)

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# 1 [Pattern recognition with a pulsed neural network](#)

Judith Dayhoff

 May 1991 **Proceedings of the conference on Analysis of neural network applications**

 Full text available: [pdf\(1.16 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

# 2 [Constructing deterministic finite-state automata in recurrent neural networks](#)

Christian W. Omlin, C. Lee Giles

 November 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 6

 Full text available: [pdf\(646.04 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recurrent neural networks that are trained to behave like deterministic finite-state automata (DFAs) can show deteriorating performance when tested on long strings. This deteriorating performance can be attributed to the instability of the internal representation of the learned DFA states. The use of a sigmoidal discriminant function together with the recurrent structure contribute to this instability. We prove that a simple algorithm can construct second-order ...

**Keywords:** automata, connectionism, knowledge encoding, neural networks, nonlinear dynamics, recurrent neural networks, rules, stability

# 3 [Data clustering: a review](#)

A. K. Jain, M. N. Murty, P. J. Flynn

 September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

 Full text available: [pdf\(636.24 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords:** cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

# 4 [PLEXUS—an on-line system for modeling neural networks](#)

J. C. Dill, D. L. Randall, I. Richer

 September 1968 **Communications of the ACM**, Volume 11 Issue 9

 Full text available: [pdf\(926.62 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A description is presented of PLEXUS, a system which enables a user to construct and specify a neural network, to analyze the output data produced by the network, and to store and retrieve networks and data from a library. The system, operated entirely from a digital display unit, interacts directly with the user and permits easy and rapid transitions between the various phases of the modeling process. PLEXUS is designed to complement neurophysiological research so that the systematic development ...

**Keywords:** biological modeling, data analysis, discrete system simulation, library systems, modeling, network simulation, neural networks, neurophysiological models, on-line simulation, simulation

# 5 [Neural networks and dynamic complex systems](#)

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong

 March 1989 **Proceedings of the 22nd annual symposium on Simulation**

 Full text available: [pdf\(1.44 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

# 6 [Neural network approach to solving the Traveling Salesman Problem](#)

Ralph Reilly, Plamen Tchimev

 October 2003 **The Journal of Computing in Small Colleges**, Volume 19 Issue 1

 Full text available: [pdf\(233.89 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Traveling Salesman Problem involves mapping a route for a salesman to visit each city, without stopping in the same city twice, in the shortest route possible. A map of Germany is used as the test data for the study in this report.

**7 Session 9A: System level test and reliability: Accurate CMOS bridge fault modeling with neural network-based VHDL saboteurs**

Don Shaw, Dhamin Al-Khalili, Côme Rozon

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Full text available: [pdf\(137.79 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a new bridge fault model that is based on a multiple layer feedforward neural network and implemented within the framework of a VHDL saboteur cell. Empirical evidence and experimental results show that it satisfies a prescribed set of bridge fault model criteria better than existing approaches. The new model computes exact bridged node voltages and propagation delay times with due attention to surrounding circuit elements. This is significant since, with the exception of full ...

**Keywords:** CMOS ICs, VHDL, bridge defects, fault models, fault simulation, neural networks

**8 Visualisation of social networks using CAVALIER**

Anthony Dekker

December 2001 **Australian symposium on Information visualisation - Volume 9**

Full text available: [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Social Network Analysis is an approach to analysing organisations focusing on relationships as the most important aspect. In this paper we discuss visualisation techniques for Social Network Analysis, including spring-embedding and simulated annealing techniques. We introduce a visualisation technique based on Kohonen neural networks, and also introduce social flow diagrams for demonstrating the relationship between two forms of conceptual distance.

**Keywords:** Kohonen neural networks, social network analysis

**9 Real time application of artificial neural network for incipient fault detection of induction machines**

Mo-yuen Chow, Sui Oi Yee

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: [pdf\(751.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-order ...

**10 A survey on wavelet applications in data mining**

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: [pdf\(330.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

**11 A discrete-time neural network multitarget tracking data association algorithm**

Oluseyi Olurotimi

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: [pdf\(862.55 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**12 A constructive algorithm for neural networks that generalize**

Alvin Surkan, Colin Campbell

January 1998 **ACM SIGAPL APL Quote Quad**, **Proceedings of the conference on Share knowledge share success**, Volume 28 Issue 4

Full text available: [pdf\(650.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

APL functions were designed to describe a constructive algorithm that synthesizes a neural network while optimizing its ability to generalize. Algorithms are implemented in programs to discover networks of binary weights that assign unfamiliar, high-dimension binary patterns to their most similar classes. Constructive algorithms that create networks are important for the design of classifiers based on array-processors made from fast two-level circuits. APL is an effective tool for the exposition ...

**13 Computing curricula 2001**

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**14 A comparative study of neural network algorithms applied to optical character recognition**

P. Patrick van der Smagt

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: [pdf\(1.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three simple general purpose networks are tested for pattern classification on an optical character recognition problem. The feed-forward (multi-layer perceptron) network, the Hopfield network and a competitive learning network are compared. The input patterns are obtained by optically scanning images of printed digits and uppercase letters. The resulting data is used as input for the networks with two-state input nodes; for others, features are extracted by template matching and pi ...

#### 15 [Technique for automatically correcting words in text](#)

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling correction ...

**Keywords:** n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

#### 16 [A comparative study of fuzzy versus "fixed" thresholds for robust queue management in cell-switching networks](#)

Allen R. Bonde, Sumit Ghosh

August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

Full text available: [pdf\(976.98 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 17 [Face recognition: A literature survey](#)

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: [pdf\(4.28 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

**Keywords:** Face recognition, person identification

#### 18 [Adaptivity in agent-based routing for data networks](#)

David H. Wolpert, Sergery Kirshner, Chris J. Merz, Kagan Tumer

June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: [pdf\(841.21 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 19 [What have we learnt from using real parallel machines to solve real problems?](#)

G. C. Fox

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Full text available: [pdf\(4.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

#### 20 [Survey articles: Data mining for hypertext: a tutorial survey](#)

Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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## Fractal Structure of Strange Attractor at the Subsidiary Resonance in Yttrium Iron Garnet

Seitaro Mitsudo, Michinobu Mino and Hitoshi Yamazaki

*Department of Physics, Faculty of Science, Okayama University, Tsushima, Okayama 700*

(Received September 17, 1990)

Transverse pumping at the first-order Suhl instability in YIG has been performed at a pumping frequency of 3.3 GHz at 4.2 K. Above the spin-wave instability threshold, period-doubling cascades and chaotic auto-oscillations are observed. From time-series data, return maps, fractal dimensions, phase space portraits of strange attractors, two-dimensional Poincaré sections, and singularity spectrum  $f(\alpha)$  are obtained. The Poincaré sections of the phase space trajectories exhibit the stretching and folding which are characteristics of strange attractors. At the onset of chaos, the  $f(\alpha)$  spectrum is consistent with the universal one.



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# NOLTA'99 Advanced Program

**Session No.:** 1-A-6

**Keynote Address**

**Date:** 29, November **Time:** 8:50-9:50

**Room:** 6

**Chair:** M. P. Kennedy (Univ. College Dublin)

- *Generalized Cellular Automata*  
Leon O. Chua (Univ. of California at Berkeley, USA)

**Session No.:** 1-B-1

**Special Session:** Information Geometry and Optical Soliton Communication

**Date:** 29, November **Time:** 10:20-12:40

**Room:** 1

**Organizer:** S. Oishi (Waseda Univ.)

**Chair:** S. Oishi (Waseda Univ.)

1. *Information Geometry of Neural Networks*  
Shun-ichi Amari (RIKEN, Japan)
2. *Recent Progress in Soliton Communication Technology*  
Hirokazu Kubota (NTT, Japan) and Masataka Nakazawa (NTT, Japan)

**Session No.:** 1-B-3

**Regular Session:** Neural Networks and Optimization

**Date:** 29, November **Time:** 10:20-12:40

**Room:** 3

**Chair:** S. Ishii (NAIST and ATR-HIP)

1. *Hopfield Network Learning for Traveling Salesman Problem*  
Hai He Jin (Miyazaki Univ., Japan), Zheng Tang (Miyazaki Univ., Japan) and Kenji Murao (Miyazaki Univ., Japan)
2. *On the Properties of Hopfield Neural Networks with Chaotic Noise for Traveling Salesman Problem*  
Katsuya Shimoji (Univ. of Tsukuba, Japan), Tohru Kawabe (Univ. of Tsukuba, Japan), Tetsushi Ueta (Tokushima Univ., Japan) and Yoshifumi Nishio (Tokushima Univ., Japan)
3. *Hopfield Neural Network with Various Burst Noise for TSP*  
Shuji Baba (Tokushima Univ., Japan), Yoshifumi Nishio (Tokushima Univ., Japan), Tohru Kawabe (Univ. of Tsukuba, Japan) and Tetsushi Ueta (Tokushima Univ., Japan)
4. *On a Promotion Term for Convergence of the Binary Neural Networks*  
Akihiro Matsunaga (Okayama Pref. Univ., Japan), Akihiro Kanagawa (Okayama Pref. Univ., Japan) and Hiromitsu Takahashi (Okayama Pref. Univ., Japan)

**Session No.:** 1-B-4

**Special Session:** Chaos Control and Synchronization

**Date:** 29, November **Time:** 10:20-12:40

**Room:** 4

**Organizer:** Johan Suykens (K.U. Leuven) and Joos Vandewalle (K.U. Leuven)

**Chair:** J. Suykens (K.U. Leuven)

1. *Generalized Synchronization: a Lagrange Programming Network Formulation*  
Johan A.K. Suykens (K.U. Leuven ESAT/SISTA, Belgium) and Joos Vandewalle (K.U. Leuven ESAT/SISTA, Belgium)
2.  *$\mathcal{H}_\infty$  Synchronization*  
Paul F. Curran (National Univ. of Ireland, Ireland)
3. *On the Existence of Independent Symbolic Dynamics for Weak Coupling of Chaotic Systems*  
Zbigniew Galias (Univ. of Mining and Metallurgy, Poland)
4. *Suppressing Chaos in Neural Networks via Inhibition of Neurons*  
Xiao Fan Wang (Nanjing Univ. of Sci. and Tech., China), Guanrong Chen (Univ. of Houston, USA) and Kim-Fung Man (City Univ. of Hong Kong, China)
5. *Normal Hyperbolicity and Robust Synchronization*  
Ljupco Kocarev (Univ. of California at San Diego, USA), Jochen Brückner (Univ. Göttingen, Germany) and Ulrich Parlitz (Univ. Göttingen, Germany)

**Session No.:** 1-B-5

**Special Session:** Automatic Extraction of Fuzzy If-Then Rules

**Date:** 29, November **Time:** 10:20-12:40

**Room:** 5

**Organizer:** T. Yamakawa (Kyushu Inst. of Tech.)

Chair: T. Miki (Kyushu Inst. of Tech.)

1. *On Extraction of Fuzzy If-Then Rules from Practical Data*  
Takeshi Yamakawa (Kyushu Inst. of Tech., Japan)
2. *Extracting Fuzzy Inference Rules by Instance Generalization and Neural Computation for Constraint-Oriented Decision Making*  
Ken Sato (Kyoto Univ., Japan), Tadashi Horiuchi (Osaka Univ., Japan) and Hiroshi Kawakami (Kyoto Univ., Japan)
3. *Fuzzy Rules Acquisition Considering Rules Intelligibility*  
Takehisa Onisawa (Univ. of Tsukuba, Japan) and Tsuyoshi Anzai (Univ. of Tsukuba, Japan)
4. *Genetic-Algorithm-Based Approaches to the Linguistic Rule Extraction from Numerical Data*  
Hisao Ishibuchi (Osaka Pref. Univ., Japan) and Tomoharu Nakashima (Osaka Pref. Univ., Japan)
5. *Self-Organizing Relationship (SOR) Network --Equivalent to a Fuzzy Inference with Automatically Extracted Fuzzy If-Then Rules--*  
Keiichi Horio (Kyushu Inst. of Tech., Japan) and Takeshi Yamakawa (Kyushu Inst. of Tech., Japan)

Session No.: 1-C-1

Regular Session: Image and Signal Processing I

Date: 29, November Time: 14:00-15:40

Room: 1

Chair: M. Tanaka (Sophia Univ.)

1. *Nonstationary Analysis of Human Coherent Oscillatory MEG Activities over the Whole Cortex*  
Tetsuo Kobayashi (Hokkaido Univ., Japan)
2. *DIT and DIF Algorithms for Composite Length Signals*  
Hideo Murakami (Kanazawa Inst. of Tech., Japan)
3. *Fast Algorithm for Updating the Local Histogram of Multidimensional Signals*  
Heikki Huttunen (Tampere Univ. of Tech., Finland) and Olli Yli-Harja (Tampere Univ. of Tech., Finland)
4. *Joint Distributions - Are They Sensitive to Contamination or Not?*  
Sari Peltonen (Tampere Univ. of Tech., Finland) and Pauli Kuosmanen (Tampere Univ. of Tech., Finland)
5. *A Method for Calculating Breakdown Probabilities of Recursive Stack Filters Based on Markov Chain Models*  
Pertti Koivisto (Tampere Univ. of Tech., Finland), Olli Yli-Harja (Tampere Univ. of Tech., Finland), Antti Niemistö (Tampere Univ. of Tech., Finland) and Ilya Shmulevich (Tampere Univ. of Tech., Finland)

Session No.: 1-C-2

Regular Session: Analog / Digital IC

Date: 29, November Time: 14:00-15:40

Room: 2

Chair: O. Ishizuka (Miyazaki Univ.)

1. *An Enhanced Current Mirror Circuit for Low Power Supply Voltage*  
Hajime Takakubo (Chuo Univ., Japan) and Kawori Takakubo (Tokai Univ., Japan)
2. *Capacitance-to-Frequency Converter for Capacitance Measurement*  
Xiaojing Shi (Miyazaki Univ., Japan), Hiroki Matsumoto (Miyazaki Univ., Japan) and Kenji Murao (Miyazaki Univ., Japan)
3. *Multiple-Valued Basic Operational Circuits with Neuron-MOS Transistors*  
Makoto Syuto (Miyazaki Univ., Japan), Koichi Tanno (Miyazaki Univ., Japan), Okihiko Ishizuka (Miyazaki Univ., Japan) and Zheng Tang (Miyazaki Univ., Japan)
4. *A Current Squarer with Low Input Impedance and Its Applications*  
Yasuhide Kuramoti (Sci. Univ. of Tokyo, Japan), Akira Hyogo (Sci. Univ. of Tokyo, Japan) and Keitaro Sekine (Sci. Univ. of Tokyo, Japan)

Session No.: 1-C-4

Regular Session: Chaos and Bifurcation I

Date: 29, November Time: 14:00-15:40

Room: 4

Chair: M. P. Kennedy (Univ. College Dublin)

1. *Synchronization of Square Wave Generators Coupled by a Resistor*  
Takashi Kido (Tokushima Univ., Japan), Takuji Kousaka (Fukuyama Univ., Japan), Hiroshi Kawakami (Tokushima Univ., Japan) and Tetsushi Ueta (Tokushima Univ., Japan)
2. *Bifurcation in a Chaotic Oscillator Utilizing a Chua's Circuit and a Position Sensor*  
Akio Suzuki (Mechanical Eng. Laboratory, Japan)
3. *Instability and Bifurcation in Current-Sharing Switching Regulators*  
Herbert H. C. Iu (Hong Kong Polytechnic Univ., Hong Kong) and Chi K. Tse (Hong Kong Polytechnic Univ., Hong Kong)
4. *Chaotic Circuit Using Two Simple Ring Oscillators Coupled by Diodes*  
Yasuteru HOSOKAWA (Tokushima Univ., Japan), Yoshifumi NISHIO (Tokushima Univ., Japan) and Akio USHIDA (Tokushima Univ., Japan)
5. *Systematic Realization of a Class of Hysteresis Chaotic Oscillators*  
Ahmed S. Elwakil (Univ. College Dublin, Ireland) and Michael P. Kennedy (Univ. College Dublin, Ireland)

Session No.: 1-C-5

Regular Session: Neuro Dynamics I

Date: 29, November Time: 14:00-15:40

Room: 5

Chair: T. Ikeguchi (Science Univ. of Tokyo)



1. *Sign Ternary Logic Circuit Using Chaotic Oscillations in SQUIDS*  
Mititada Morisue (Hiroshima City Univ., Japan), Yukiyasu Nakamura (Hiroshima City Univ., Japan), Masahiro Sakamoto (Hiroshima City Univ., Japan) and Hisato Fujisaka (Hiroshima City Univ., Japan)
2. *Probability Density Estimation of Spike Trains through Estimation of Underlying Code Vectors*  
Toshihiro Iwamoto (Univ. of Tokyo, Japan) and Kazuyuki Aihara (Univ. of Tokyo, Japan)
3. *Quantitative Comparison of Various Stochastic Models of Single Neurons --Simplicity and Physiological Plausibility--*  
Junko Inoue (Koka Women's College, Japan)
4. *Classifying the Dynamics of Spontaneous Synchronized Firing in Networks of Cortical Neurons*  
Hugh P. C. Robinson (Univ. of Cambridge, UK), Yasuhiko Jimbo (NTT Basic Research Laboratories, Japan), Annette Harsch (Univ. of Cambridge, UK) and Eisaku Maeda (NTT Basic Research Laboratories, Japan)
5. *Potentiality of Chaos in Simple Neural Systems*  
Ladislav ANDREY (Academy of Sci. of Czech Republic, Czech Republic)

**Session No.: 1-D-1****Regular Session:** Image and Signal Processing II**Date:** 29, November **Time:** 16:00-17:40**Room:** 1**Chair:** H. Murakami (Kanazawa Inst. of Tech.)

1. *How to Choose Parameters on a Hopfield Network for Stereo Correspondence*  
Irak V. Mayer (Univ. of Electro-Communications, Japan) and Haruhisa Takahashi (Univ. of Electro-Communications, Japan)
2. *Neocognitron-Type Neural Network Model for 3-D Temporal Pattern Discrimination*  
Sei Takahashi (Nihon Univ., Japan), Makoto Noshu (Nihon Univ., Japan), Tsukasa Aoshika (Nihon Univ., Japan) and Yoshifumi Sekine (Nihon Univ., Japan)
3. *A Multi-Layered Competitive Net for Pattern Recognition Invariant to Linear and/or Nonlinear Coordinate Transformations*  
Takeshi Nishida (Kyushu Inst. of Tech., Japan) and Shuichi Kurogi (Kyushu Inst. of Tech., Japan)
4. *Fingerprint Identification Using Fractal Coding*  
Toshikazu Masaki (Tokushima Univ., Japan), Tetsushi Ueta (Tokushima Univ., Japan) and Kenji Terada (Tokushima Univ., Japan)

**Session No.: 1-D-2****Regular Session:** Power Systems**Date:** 29, November **Time:** 16:00-17:40**Room:** 2**Chair:** A. Hyogo (Science Univ. of Tokyo)

1. *High-Speed High-Power MOSFET Floating Switches*  
Ikko Harada (Kumamoto Univ., Japan), Noriaki Hara (Kumamoto National College of Tech., Japan), Fumio Ueno (Kumamoto National College of Tech., Japan) and Ichirou Oota (Kumamoto National College of Tech., Japan)
2. *A New Simple Method for Deriving Output Resistances of Switched-Capacitor Power Supplies*  
Ichirou Oota (Kumamoto National College of Tech., Japan), Noriaki Hara (Kumamoto National College of Tech., Japan) and Fumio Ueno (Kumamoto National College of Tech., Japan)
3. *A New Computerised Evaluation Method of Transient Magnetizing Currents of Transformer Caused by Magnetic Nonlinear Characteristics*  
Masaru Ogawa (Toyama National College of Tech., Japan)
4. *A Programmable Ring Type Switched-Capacitor AC-DC Converter*  
Noriaki Hara (Kumamoto National College of Tech., Japan), Ichirou Oota (Kumamoto National College of Tech., Japan), Fumio Ueno (Kumamoto National College of Tech., Japan) and Ikko Harada (Kumamoto Univ., Japan)

**Session No.: 1-D-3****Regular Session:** Optimization and Simulation**Date:** 29, November **Time:** 16:00-17:40**Room:** 3**Chair:** M. Ohta (Osaka Electro-Communication Univ.)

1. *A Proposal of a Two-Stage Discrete Optimization Method for the Maximum Clique Problem*  
Nobuo Funabiki (Osaka Univ., Japan) and Teruo Higashino (Osaka Univ., Japan)
2. *Global Optimization Using a Coupled Chaotic Dynamical System*  
Masaya Ohta (Osaka Electro-Communication Univ., Japan)
3. *A Non-Equilibrium Neural Optimization Method for Quadratic Assignment Problem*  
Shin Ishii (NAIST and ATR-HIP, Japan) and Hirotaka Niitsuma (NAIST, Japan)
4. *Optimizing Simulation for a Motion of Upper Limb during Throwing in Baseball*  
Yoshiyuki Mochizuki (Osaka Univ., Japan), Seiji Inokuchi (Osaka Univ., Japan) and Koichi Omura (Takarazuka Univ. of Art and Design, Japan)

**Session No.: 1-D-4****Regular Session:** Chaos and Bifurcation II**Date:** 29, November **Time:** 16:00-17:40**Room:** 4**Chair:** T. Endo (Meiji Univ.)

1. *Noise Effects on Synchronization in Coupled Oscillators*  
Santi Chillemi (Consiglio Nazionale delle Ricerche, Italy), Michele Barbi (Consiglio Nazionale delle Ricerche, Italy) and Angelo Di Garbo

- (Consiglio Nazionale delle Ricerche, Italy)
2. *Subharmonic Orbits in Phase-Locked Loops.*  
Dmitry A. Altshuller (Lucent Technologies, Inc., USA)
  3. *Explosion of Strange Attractors and Crisis Induced Intermittency from a Forced Phase-Locked Loop Circuit: Theory and Experiments*  
Tetsuro ENDO (Meiji Univ., Japan), Wataru OHNO (Meiji Univ., Japan) and Yoshisuke UEDA (Kyoto Univ., Japan)
  4. *Bifurcation Routes to Intermittent Chaos from a Ring of Four Coupled PLLs*  
Akio HASEGAWA (Meiji Univ., Japan), Tetsuro ENDO (Meiji Univ., Japan) and Motomasa KOMURO (Teikyo Univ., Japan)
  5. *Chaotic Behavior in Piecewise Mechanical System with Displacement Dependent External Force*  
Keisuke Matsuyama (Univ. of Tokyo, Japan), Haruki Madarame (Univ. of Tokyo, Japan) and Koji Okamoto (Univ. of Tokyo, Japan)

**Session No.: 1-D-5****Regular Session:** Neuro Dynamics II**Date:** 29, November **Time:** 16:00-17:40**Room:** 5**Chair:** S. Doi (Osaka Univ.)

1. *Diversity and Common Features in the Nonlinear Neuronal Dynamics of Hodgkin-Huxley-Type Equations Family*  
Shinji Doi (Osaka Univ., Japan) and Sadatoshi Kumagai (Osaka Univ., Japan)
2. *Bifurcations of the Hodgkin-Huxley Equations for Muscles as a Model of Sodium Channel Diseases*  
Kazuko Terada (Toho Univ., Japan), Shuji Yoshizawa (Saitama Univ., Japan) and Chiaki Nishimura (Toho Univ., Japan)
3. *Bifurcations in an Impulsively Forced Hodgkin-Huxley Equation*  
Yasuhiko Sano (Tokushima Univ., Japan), Tetsuya Yoshinaga (Tokushima Univ., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
4. *Bifurcations in Synaptically Coupled BVP Neurons*  
Kunichika Tsumoto (Tokushima Univ., Japan), Tetsuya Yoshinaga (Tokushima Univ., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
5. *Directionally Selective Cells Have a  $\delta$ -like Morphology*  
Hiroki Tamura (Miyazaki Univ., Japan), Zheng Tang (Miyazaki Univ., Japan), Okihiko Ishizuka (Miyazaki Univ., Japan) and Koichi Tanno (Miyazaki Univ., Japan)

**Session No.: 2-A-1****Regular Session:** Communication and Chaos**Date:** 30, November **Time:** 9:00-10:40**Room:** 1**Chair:** R. Rovatti (Univ. of Bologna)

1. *Chaotic FM and AM of Clock Signals for Improved EMI Compliance*  
Riccardo Rovatti (Univ. of Bologna, Italy), Gianluca Setti (Univ. of Ferrara, Italy) and S. Graffi (Univ. of Bologna, Italy)
2. *Communication Systems Using Chaotic Synchronization in Multipath Channels*  
Kazuhiko NAKAMURA (Ibaraki Univ., Japan), Teruyuki MIYAJIMA (Ibaraki Univ., Japan), Nobuhiro SUZUKI (Ibaraki Univ., Japan) and Kazuo YAMANAKA (Ibaraki Univ., Japan)
3. *Secure Multichannel Digital Communications by the Synchronization of Coupled Chaotic Systems*  
Kazuyuki Yoshimura (NTT Communication Sci. Laboratories, Japan)
4. *Chaos-Based Generation of Optimal DS-CDMA Sequences*  
Riccardo Rovatti (Univ. of Bologna, Italy), Gianluca Setti (Univ. of Ferrara, Italy) and Gianluca Mazzini (Univ. of Ferrara, Italy)

**Session No.: 2-A-2****Regular Session:** GA I**Date:** 30, November **Time:** 9:00-10:40**Room:** 2**Chair:** H. Sawai (Communications Research Laboratory)

1. *Biometrics Identification Chip and Its Design Using Evolutionary Algorithm*  
Moritoshi Yasunaga (Univ. of Tsukuba, Japan), Taro Nakamura (Univ. of Tsukuba, Japan) and Ikuo Yoshihara (Miyazaki Univ., Japan)
2. *A New Evolutionary Approach for Synthesizing Circuit Structures*  
Naofumi Homma (Tohoku Univ., Japan), Takafumi Aoki (Tohoku Univ., Japan) and Tatsuo Higuchi (Tohoku Univ., Japan)
3. *Optimization of Dynamic Routing of Self-Similar Traffic Based upon the Prediction of Fractal Time Series and the GA*  
Shozo Tokinaga (Kyushu Univ., Japan) and Wataru Takebayashi (Kyushu Univ., Japan)

**Session No.: 2-A-3****Regular Session:** Image and Signal Processing III**Date:** 30, November **Time:** 9:00-10:40**Room:** 3**Chair:** A. Taguchi (Musashi Inst. of Tech.)

1. *An Enlargement Method of Digital Images Based on Laplacian Pyramid Representation*  
Yasumasa Takahashi (Musashi Inst. of Tech., Japan) and Akira Taguchi (Musashi Inst. of Tech., Japan)
2. *Video Coding Algorithm Based on Modified Discrete Wavelet Transform*  
Roberto Y. Omaki (Osaka Univ., Japan), Gen Fujita (Osaka Univ., Japan), Takao Onoye (Osaka Univ., Japan) and Isao Shirakawa (Osaka Univ., Japan)
3. *Identification Process of the Defect Color on the Electronic Displays by Genetic Algorithm*  
Mauridhi H. Purnomo (Politeknik Elektronika and FTI-ITS, Indonesia), Era Purwanto (Politeknik Elektronika and FTI-ITS, Indonesia), Zulkifli

Hidayat (Politeknik Elektronik and FTI-ITS, Indonesia) and Toshio Asano (Hitachi Production Eng. Research Laboratory, Japan)

4. Correcting Misclassifications in Hyperspectral Image Data Using a Nonlinear Graph-Based Estimation Technique  
Olli Yli-Harja (Tampere Univ. of Tech., Finland) and Ilya Shmulevich (Tampere Univ. of Tech., Finland)

**Session No.: 2-A-4**

**Regular Session:** Chaos and Bifurcation III

**Date:** 30, November **Time:** 9:00-10:40

**Room:** 4

**Chair:** H. Kitajima (Kagawa Univ.)

1. Universal Regularities at Fast Period Doubling Bifurcations with Noise  
Boris P. Bezruchko (Saratov State Univ., Russia) and Roman N. Ivanov (Saratov State Univ., Russia)
2. Bifurcations and Attractors in Two-Dimensional Maps of Cubic Type.  
Daniele Fournier-Prunaret (INSA, France) and Veronique Guglielmi (INSA, France)
3. A Method to Calculate Basin Bifurcation Sets for a Two-Dimensional Noninvertible Map  
Hiroyuki Kitajima (Kagawa Univ., Japan), Hiroshi Kawakami (Tokushima Univ., Japan) and Christian Mira (INSA, France)
4. Efficient Construction of 3D Bifurcation Diagrams for Nonlinear Dynamical Systems  
Eiji Izumida (Tokushima Univ., Japan), Tetsushi Ueta (Tokushima Univ., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
5. A Novel Presentation Method of Displaying Strange Attractors of Chaotic Dynamical Systems by Force Feedback  
Yasuaki Yorikane (Sci. Univ. of Tokyo, Japan), Ayumu Akabane (Sci. Univ. of Tokyo, Japan), Tetsuya Harada (Sci. Univ. of Tokyo, Japan) and Tohru Ikeguchi (Sci. Univ. of Tokyo, Japan)

**Session No.: 2-A-5**

**Regular Session:** Associative Memory

**Date:** 30, November **Time:** 9:00-10:40

**Room:** 5

**Chair:** K. Ikeda (Kyoto Univ.)

1. A Chaos Cellular Automaton with the Hebbian Learning Rule  
Masahiro Nakagawa (Nagaoka Univ. of Tech., Japan)
2. Spatiotemporal Pattern Dynamics of Associative Memory using a Chaotic Neural Network Sinusoidally Modulated by Learning Patterns  
Shin Mizutani (NTT Communication Sci. Laboratories, Japan)
3. Analogical Reasoning by Chaotic Associative Memory using Internal Patterns  
Yuko Osana (Keio Univ., Japan) and Masafumi Hagiwara (Keio Univ., Japan)
4. Capability of Sparsely Interconnected Neural Networks for Associative Memories Applying Discrete Walsh Transform  
Takeshi Kamio (Hiroshima City Univ., Japan) and Hideki Asai (Shizuoka Univ., Japan)
5. Nonlinear Properties of the Prefrontal Cortical Circuit for Working Memory Processing.  
Shoji Tanaka (Sophia Univ., Japan)

**Session No.: 2-B-1**

**Regular Session:** Mobile Communications

**Date:** 30, November **Time:** 11:00-12:40

**Room:** 1

**Chair:** M. Itami (Science Univ. of Tokyo)

1. Optimal Margin Classifiers Applied to Multiuser Detection  
Anthony Kuh (Univ. of Hawaii at Manoa, USA) and Xiaohong Gong (Univ. of Hawaii at Manoa, USA)
2. An Integrated Analytical Approach for Multihop Token Based WLANs  
Alessandra Giovanardi (Univ. of Ferrara, Italy) and Gianluca Mazzini (Univ. of Ferrara, Italy)
3. A Token Passing Protocol for Local Communication among Mobile Robots  
Hisayoshi SUGIYAMA (Osaka City Univ., Japan), Naoki KUWAHARA (Mitsubishi Electric Corp., Japan) and Masashi MURATA (Osaka City Univ., Japan)
4. Reduction of the Affection of Nonlinear Distortion in an OFDM Signal by Distributing Data Symbols in the Frequency Domain  
Tutomu Seki (Sci. Univ. of Tokyo, Japan), Makoto Itami (Sci. Univ. of Tokyo, Japan), Hiroki Ohta (Communications Research Laboratory, Japan) and Kohji Itoh (Sci. Univ. of Tokyo, Japan)
5. Extension on  $SGF(q)$  of  $m$ -Sequences and Gold-Sequences for CDMA Applications  
Gianluca Mazzini (Univ. of Ferrara, Italy)

**Session No.: 2-B-2**

**Regular Session:** GA II

**Date:** 30, November **Time:** 11:00-12:40

**Room:** 2

**Chair:** S. Tokinaga (Kyushu Univ.)

1. New Schemes of Evolutionary Computation Inspired by Biological Evolution  
Hidefumi SAWAI (Communications Research Laboratory, Japan)
2. An Application of Genetic Algorithm to a Backward Evolution Cellular Automata  
Youichi Murakami (Tokyo Univ. of Info. Sci., Japan), Kazuhisa Kitakaze (Tokyo Univ. of Info. Sci., Japan) and Cong-Kha Pham (Tokyo Univ. of Info. Sci., Japan)
3. Genetic Algorithm Based on a Pareto Neighborhood Search for Multiobjective Optimization

Takanori Tagami (Anan College of Tech., Japan) and Tohru Kawabe (Univ. of Tsukuba, Japan)

**Session No.: 2-B-3**

**Regular Session:** Fractals

**Date:** 30, November **Time:** 11:00-12:40

**Room:** 3

**Chair:** T. Ueta (Tokushima Univ.)

1. *A New Fractal Texture Construction Approach*  
Gang Chen (Zhejiang Univ., China), Hongyong Wang (Xi'an Jiaotong Univ., China) and Jiongfeng Wu (Zhejiang Univ., China)
2. *Application of Chaos Theory and Fractal Analysis for EEG-Signal Processing in Patients with Seasonal Affective Disorder*  
Włodzimierz KLONOWSKI (Polish Academy of Sci., Poland), Jacek Ciszewski (Polish Academy of Sci., Poland), Wojciech Jernajczyk (Inst. of Psychiatry and Neurology, Poland) and Krystyna Niedzielska (Inst. of Psychiatry and Neurology, Poland)
3. *Fractal-Based Segmentation of Digital Images*  
Bożena Świdzińska (Warsaw Univ. of Tech., Poland)
4. *Improvements of Image Segmentation by Using Fractal Coding*  
Akira Takeuchi (Tokushima Univ., Japan), Tetsushi Ueta (Tokushima Univ., Japan) and Kenji Terada (Tokushima Univ., Japan)

**Session No.: 2-B-4**

**Regular Session:** Chaos and Bifurcation IV

**Date:** 30, November **Time:** 11:00-12:40

**Room:** 4

**Chair:** T. Hikihara (Kyoto Univ.)

1. *Bifurcation of Quasi-Periodic Wave in Coupled Magneto-Elastic Beam System*  
Takashi HIKIHARA (Kyoto Univ., Japan), Kentaro TORII (Kyoto Univ., Japan) and Yoshisuke UEDA (Kyoto Univ., Japan)
2. *Bifurcation Analyses of Coupled Duffing's Equations for Motion of a Flooded Ship in Waves*  
Sunao Murashige (Univ. of Tokyo, Japan) and Kazuyuki Aihara (Univ. of Tokyo, Japan)
3. *A Coupled Chaotic System as a Model of a Multi-Agent System*  
Kazumasa Hirai (Konan Univ., Japan) and Jun'ichi Mori (Konan Univ., Japan)
4. *Observed Behavior on a Two-Link Planar Manipulator with a Free Joint*  
Ken-ichi Fujimoto (Anan College of Tech., Japan), Yoshio Tanaka (Shikoku National Industrial Research Inst., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)

**Session No.: 2-B-5**

**Regular Session:** Neural Networks

**Date:** 30, November **Time:** 11:00-12:40

**Room:** 5

**Chair:** Ching-Cheng Teng (National Chiao-Tung Univ.)

1. *A Neural Network Approximating Dynamical System and its Structure*  
Yuichi Nakamura (Anan College of Tech., Japan), Daisuke Sato (Anan College of Tech., Japan), Ken-ichi Funahashi (Univ. of Aizu, Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
2. *Neural Network Model with Annealing for Precipitation Prediction*  
Jeong S. Yu (Chonju National Univ. of Education, Korea)
3. *A Hammerstein Model for Identifying General Nonlinear Dynamic Systems*  
Ching-Hung Lee (National Chiao Tung Univ., Taiwan) and Ching-Cheng Teng (National Chiao Tung Univ., Taiwan)
4. *A Chaotic Circuit Based on Two CNN Cells with Non-Integer Order*  
Riccardo Caponetto (ST-Microelectronics, Italy), Luigi Fortuna (Univ. of Catania, Italy), Mario Lavorgna (ST-Microelectronics, Italy) and Domenico M. Porto (ST-Microelectronics, Italy)

**Session No.: 2-C-4**

**Special Session:** Dynamics, Reconstruction and Control

**Date:** 30, November **Time:** 14:00-17:40

**Room:** 4

**Organizer:** A. Mees (Univ. of Western Australia)

**Chair:** A. Mees (Univ. of Western Australia)

1. *Estimating Probability Distributions Using Tomographic Imaging Techniques*  
David Allingham (Univ. of Western Australia, Australia), Devin Kilminster (Univ. of Western Australia, Australia) and Alistair Mees (Univ. of Western Australia, Australia)
2. *The Benefits of Complicated Embeddings*  
Devin Kilminster (Univ. of Western Australia, Australia)
3. *Symbols and Dynamics*  
Alistair Mees (Univ. of Western Australia, Australia) and Matt B. Kennel (Univ. of California at San Diego, USA)
4. *Synchronising Two Chaotic Ikeda Ring Lasers*  
Alistair Mees (Univ. of Western Australia, Australia), James Ong (Univ. of Western Australia, Australia) and Colin Sparrow (Univ. of Cambridge, UK)
5. *Reconstructing Laser Dynamics: Getting the Dynamics Right*  
Berndt Pilgram (Univ. of Western Australia, Australia), Kevin Judd (Univ. of Western Australia, Australia) and Alistair Mees (Univ. of Western Australia, Australia)

- Australia, Australia)
6. *Estimating Invariant Measures*  
David Ridout (Univ. of Western Australia, Australia) and Alistair Mees (Univ. of Western Australia, Australia)
  7. *Controllers for the Bouncing Ball*  
Thomas L. Vincent (Univ. of Arizona, USA) and Alistair Mees (Univ. of Western Australia, Australia)

**Session No.: 2-C-5****Special Session:** Cellular Neural Networks**Date:** 30, November **Time:** 14:00-17:40**Room:** 5**Organizer:** T. Roska (Computer and Automation Inst. Budapest)**Chair:** T. Roska (Computer and Automation Inst. Budapest) and A. Ushida (Tokushima Univ.)

1. *Stochastic Resonance in CNNs*  
Paolo Arena (Univ. of Catania, Italy), Riccardo Caponetto (Univ. of Catania, Italy), Luigi Fortuna (Univ. of Catania, Italy) and Alessandro Rizzo (Univ. of Catania, Italy)
2. *Local Diffusion, Global Propagation and Propagation Failure in 1-D Cellular Neural Networks*  
Claudio Serpico (Univ. of Ferrara, Italy), Gianluca Setti (Univ. of Ferrara, Italy), Patrick Thiran (Univ. of Ferrara, Italy) and Andrea Pascarelli (Univ. of Ferrara, Italy)
3. *Stability Analysis of Cellular Neural Networks with Delay*  
Norikazu Takahashi (Kyushu Univ., Japan)
4. *A Rigorous Algorithm for Template Design in Stable Cellular Neural Networks*  
Pier Paolo Civalleri (Politecnico di Torino, Italy) and Marco Gilli (Politecnico di Torino, Italy)
5. *Hysteresis Hierarchical Cellular Neural Networks*  
Toshiya Nakaguchi (Sophia Univ., Japan), Yuichi Tanji (Sophia Univ., Japan) and Mamoru Tanaka (Sophia Univ., Japan)
6. *Controlling Initial State of Cooperative and Competitive Cellular Neural Networks*  
Masashi Mori (Sophia Univ., Japan), Yuichi Tanji (Sophia Univ., Japan) and Mamoru Tanaka (Sophia Univ., Japan)
7. *CNN Hardware for QCIF Video Segmentation*  
Ari Paasio (Helsinki Univ. of Tech., Finland), Asko Kananen (Helsinki Univ. of Tech., Finland), Kari Halonen (Helsinki Univ. of Tech., Finland) and Veikko Porra (Helsinki Univ. of Tech., Finland)
8. *Skeletonization and the Shortest Path Problem - Theoretical Investigation and Algorithms for CNN Universal Chips*  
Csaba Rekeczky (Hungarian Academy of Sci., Hungary)
9. *Determination of Edge Magnitude and Orientation Revisited - Practical Methods for the CNN Universal Machine*  
Kenneth R. Crounse (Univ. of California at Berkeley, USA) and Leon O. Chua (Univ. of California at Berkeley, USA)
10. *Cellular Neural Network Implementation of Double-Base Number System*  
Vassil Dimitrov (Helsinki Univ. of Tech., Finland), Sadeghi Sadeghi-Emamchaie (Univ. of Windsor, Canada), Graham Jullien (Univ. of Windsor, Canada) and William Miller (Univ. of Windsor, Canada)
11. *Image Processing System by Discrete Time Cellular Neural Network*  
Daisuke Uchimoto (Sophia Univ., Japan), Yuichi Tanji (Sophia Univ., Japan) and Mamoru Tanaka (Sophia Univ., Japan)

**Session No.: 3-A-1****Regular Session:** Interval Methods**Date:** 1, December **Time:** 9:00-10:40**Room:** 1**Chair:** Z. Galias (Univ. of Mining and Metallurgy)

1. *Comparison of Interval Methods for Finding Periodic Orbits*  
Zbigniew Galias (Univ. of Mining and Metallurgy, Poland)
2. *On Division of the Affine Arithmetic*  
Masahide Kashiwagi (Waseda Univ., Japan)
3. *An Algorithm of Finding All Solutions with Guaranteed Accuracy for Nonlinear Ordinary Differential Equations*  
Takao Soma (Waseda Univ., Japan), Shin'ichi Oishi (Waseda Univ., Japan), Masahide Kashiwagi (Waseda Univ., Japan) and Kazuo Horiuchi (Waseda Univ., Japan)
4. *A Numerical Method to Prove the Existence of Solutions for Nonlinear ODEs Using Affine Arithmetic*  
Yuchi Kanzawa (Waseda Univ., Japan) and Shin'ichi Oishi (Waseda Univ., Japan)

**Session No.: 3-A-2****Regular Session:** Fuzzy Control**Date:** 1, December **Time:** 9:00-10:40**Room:** 2**Chair:** M. Miyata (Kanazawa Inst. of Tech.)

1. *Fuzzy Model Based Adaptive Switching Control System*  
Hirofumi OHTSUKA (Kumamoto National College of Tech., Japan), Ikuro MIZUMOTO (Kumamoto Univ., Japan) and Zenta IWAI (Kumamoto Univ., Japan)
2. *A Novel Method for Tuning of PID Controllers for Unstable Processes Based on Gain and Phase Margin Specifications*  
Ching-Hung Lee (National Chiao Tung Univ., Taiwan) and Ching-Cheng Teng (National Chiao Tung Univ., Taiwan)
3. *Batching Two Materials with a Robust Fuzzy Logic Controller*  
Niko Zimic (Univ. of Ljubljana, Slovenia), Jelena Ficzk (Univ. of Ljubljana, Slovenia), Miha Mraz (Univ. of Ljubljana, Slovenia) and Iztok Lapanja (Univ. of Ljubljana, Slovenia)

**Session No.: 3-A-4****Regular Session:** Controlling Chaos**Date:** 1, December **Time:** 9:00-12:40**Room:** 4**Chair:** T. Vincent (Univ. of Arizona) and K. Konishi (Osaka Pref. Univ.)

1. Experimental Delayed-Feedback Control of Three-Coupled One-Way Map Lattices  
Keiji Konishi (Osaka Pref. Univ., Japan), Hidekazu Ooyama (Osaka Pref. Univ., Japan), Hideki Kokame (Osaka Pref. Univ., Japan) and Kentaro Hirata (Osaka Pref. Univ., Japan)
2. Delayed-Feedback Control of Discrete-Time Coupled Map Traffic Models  
Keiji Konishi (Osaka Pref. Univ., Japan), Hideki Kokame (Osaka Pref. Univ., Japan) and Kentaro Hirata (Osaka Pref. Univ., Japan)
3. Iterative Control of Logistic Map Based on Internal Model Principle and Sigmoid Function  
Naoki Matsumoto (Meiji Univ., Japan)
4. A Simple Approach to Calculation and Control of Unstable Periodic Orbits in Chaotic Piecewise Linear Systems  
Tetsushi Ueta (Tokushima Univ., Japan), Guanrong Chen (Univ. of Houston, USA) and Tohru Kawabe (Univ. of Tsukuba, Japan)
5. Controlling Spatiotemporal Chaos in a Lattice of Bistable Elements  
Boris P. Bezruchko (Inst. of Radio Eng. and Elect.s, Russia) and Mikhail Prokhorov (Inst. of Radio Eng. and Elect.s, Russia)
6. Controlling Speculative Chaos  
Taisei KAIJOJI (International Christian Univ., Japan)

**Session No.: 3-A-5****Regular Session:** Modeling and Identification I**Date:** 1, December **Time:** 9:00-10:40**Room:** 5**Chair:** A. I. Mees (Univ. of Western Australia)

1. Embedding Theorem for Input-Output Systems and Nonlinear Causal Relation  
Tohru Ikeguchi (Sci. Univ. of Tokyo, Japan)
2. Distinguishing between Deterministic and Stochastic Chaos within Brains  
Walter J. Freeman (Univ. of California at Berkeley, USA)
3. Smoothing in Chaotic Orbit and its Change of Fractal Structure  
Kenichi Kamijo (Toyo Univ., Japan) and Masahide Yoneyama (Toyo Univ., Japan)
4. Chaos-Based Signal Approximation / Reconstruction  
Maciej J. Ogorzalek (Univ. of Mining and Metallurgy, Poland) and Herv'e Dedieu (Swiss Federal Inst. of Tech. Lausanne, Switzerland)

**Session No.: 3-B-1****Regular Session:** Numerical Differential Equations**Date:** 1, December **Time:** 11:00-12:40**Room:** 1**Chair:** T. Tsuchiya (Ehime Univ.)

1. Solving Initial Boundary Value Problems via Wavelet Collocation Methods in Nonlinear Time Evolution PDEs  
Tadashi Matsumoto (Fukui Univ., Japan), Hiroyuki Shimode (Fukui Univ., Japan) and Seiichiro Moro (Fukui Univ., Japan)
2. Finite Element Analysis for Parameterized Nonlinear Equations  
Takuya TSUCHIYA (Ehime Univ., Japan)
3. On Solving Nonlinear Ordinary Differential Equations Using Wavelet Collocation Method  
Seiichiro Moro (Fukui Univ., Japan) and Tadashi Matsumoto (Fukui Univ., Japan)
4. A Numerical Method to Prove the Existence of Solutions for Ordinary Differential Equations Using Sobolev Norm  
Takatoshi MIYATA (Waseda Univ., Japan), Takao SOMA (Waseda Univ., Japan), Yuchi KANZAWA (Waseda Univ., Japan), Masahide KASHIWAGI (Waseda Univ., Japan), Shin'ichi OISHI (Waseda Univ., Japan) and Kazuo HORIUCHI (Waseda Univ., Japan)
5. Numerical Computation with Guaranteed Accuracy of Periodic Solution of Ordinary Differential Equation Using Numerical Integration  
Kosuke Maruyama (Waseda Univ., Japan), Takao Soma (Waseda Univ., Japan), Shin'ichi Oishi (Waseda Univ., Japan) and Kazuo Horiuchi (Waseda Univ., Japan)

**Session No.: 3-B-2****Regular Session:** Fuzzy Model**Date:** 1, December **Time:** 11:00-12:40**Room:** 2**Chair:** Y. Endo (Tokai Univ.)

1. Implementation of Fuzzy Automata in Pattern Recognition Problems  
Jelena Ficzk (Univ. of Ljubljana, Slovenia) and Jernej Virant (Univ. of Ljubljana, Slovenia)
2. Modeling and Fluctuation Analysis of Fuzzy Control Systems with 3-Inputs and 1-Output FLC  
Yasunori Endo (Tokai Univ., Japan) and Kazuo Horiuchi (Waseda Univ., Japan)
3. Flexible Arm Structure Control Using Adaptive Fuzzy Network  
Son Kuswadi (EEPIS-ITS, Indonesia), Wahyu Widodo (EEPIS-ITS, Indonesia), Slamet Wahyudi (EEPIS-ITS, Indonesia), Mohammad NUH (FTI-ITS, Indonesia) and Osami Saito (Chiba Univ., Japan)
4. An Approach to Generating Initial Fuzzy Rules Using Competitive Learning  
Shinya Fukumoto (Kagoshima Univ., Japan), Hiromi Miyajima (Kagoshima Univ., Japan) and Yoji Nagasawa (Kagoshima Univ., Japan)

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**Session No.: 3-B-5****Regular Session: Modeling and Identification II****Date:** 1, December **Time:** 11:00-12:40**Room:** 5**Chair:** T. Schimming (Swiss Federal Inst. of Tech.)

1. *Identification of Chaotic Dynamics by Using the Genetic Programming*  
Yosikazu Ikeda (Kyushu Univ., Japan) and Shozo Tokinaga (Kyushu Univ., Japan)
  2. *Windows Implies Chaos while Chaos Implies Cycle*  
Akio Matsumoto (Chuo Univ., Japan), Toshio Inaba (Waseda Univ., Japan), Tetsuya Misawa (Nagoya City Univ., Japan) and Toichiro Asada (Chuo Univ., Japan)
  3. *Simulation of an Artificial Market Economy*  
Tamotsu Onozaki (Asahikawa Univ., Japan) and Tatsuo Yanagita (Hokkaido Univ., Japan)
  4. *Pattern Recognition in Time Series Data*  
Thomas K. Yesufu (Obafemi Awolowo Univ., Nigeria) and Olufemi A. Yesufu (Obafemi Awolowo Univ., Nigeria)
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**Session No.: 3-C-4****Special Session: Nonlinear and Intelligent Signal Processing****Date:** 1, December **Time:** 14:00-15:40**Room:** 4**Organizer:** A. Taguchi (Musashi Inst. of Tech.)**Chair:** A. Taguchi (Musashi Inst. of Tech.)

1. *Modeling of Texture Images by the Structuring Elements of Morphological Filters*  
Takumi Komori (Musashi Inst. of Tech., Japan) and Akira Taguchi (Musashi Inst. of Tech., Japan)
  2. *ECG Data Compression by Matching Pursuits --An Application of the Non-Linear Signal Decomposition--*  
Makoto Nakashizuka (Tokyo Univ. of Agriculture & Tech., Japan), Kazuki Miwa (Tokyo Univ. of Agriculture & Tech., Japan) and Hisakazu Kikuchi (Niigata Univ., Japan)
  3. *Nonlinear Adaptive Filters Based on Gradient Vector Orientation*  
Hidefumi Kobatake (Tokyo Univ. of Agriculture & Tech., Japan), Yukiyasu Yoshinaga (Tokyo Univ. of Agriculture & Tech., Japan) and Yoshihiro Hagihara (Kyushu Inst. of Design, Japan)
  4. *A New Design Method of LWOS Filters Based on Stack Filter Representation*  
Haruyuki Ishihara (Musashi Inst. of Tech., Japan) and Akira Taguchi (Musashi Inst. of Tech., Japan)
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**Session No.: 3-C-5****Special Session: Statistical Analysis and Design of Nonlinear Systems****Date:** 1, December **Time:** 14:00-15:40**Room:** 5**Organizer:** W. Schwarz (Technical Univ. Dresden)**Chair:** W. Schwarz (Technical Univ. Dresden)

1. *Statistical Properties of Chaotic Binary Sequences by Modulo-2 Addition*  
Akio Tsuneda (Kumamoto Univ., Japan) and Tohru Kohda (Kyushu Univ., Japan)
  2. *Chaos-Based Generation of Noise for Circuit Simulation*  
Gianluca Setti (Univ. of Ferrara, Italy) and Riccardo Rovatti (Univ. of Bologna, Italy)
  3. *Statistically Motivated Detection Methods for Chaos Shift Keying*  
Thomas Schimming (Swiss Federal Inst. of Tech. Lausanne, Switzerland) and Martin Hasler (Swiss Federal Inst. of Tech. Lausanne, Switzerland)
  4. *Filtering Using Exponential Probability Densities*  
Jochen Brücker (Univ. Göttingen, Germany) and Ulrich Parlitz (Univ. Göttingen, Germany)
  5. *Statistical Generator Design for Continuous-Time Chaotic Signals*  
Wolfgang J. Schwarz (Technical Univ. Dresden, Germany), Andreas Mögel (Technical Univ. Dresden, Germany) and Alexander L. Baranovski (Technical Univ. Dresden, Germany)
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**Session No.: 3-D-6****Greeting in Occasion of 10th Anniversary of NOLTA****Date:** 1, December **Time:** 16:10-16:25**Room:** 6

Kazuo Horiuchi (Waseda Univ., Japan)

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**Session No.: 3-E-6****Plenary Talk****Date:** 1, December **Time:** 16:30-17:30**Room:** 6**Chair:** K. Horiuchi (Waseda Univ.)

- *A Retrospective on Nonlinear Networks and Input-Output Stability*  
Irwin W. Sandberg (Univ. of Texas, USA)
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**Session No.: 4-A-1****Regular Session:** Circuits and Systems I**Date:** 2, December **Time:** 9:00-10:40**Room:** 1**Chair:** K. Sekine (Science Univ. of Tokyo)

1. *CMOS-Based Voltage-mode Parallel Processing Adder and Subtractor Using Binary Coded 4-Valued 2-Radix Positive-Digit Numbers*  
Toru Tabata (Kumamoto National College of Tech., Japan), Fumio Ueno (Kumamoto National College of Tech., Japan), Kei Eguchi (Kumamoto National College of Tech., Japan) and Takahiro Inoue (Kumamoto Univ., Japan)
2. *A New CMOS Continuous-Time Current-Mode Band Pass Filter Using the Cascode Circuit*  
Toshinobu Nagasawa (Sci. Univ. of Tokyo, Japan), Akira Hyogo (Sci. Univ. of Tokyo, Japan) and Keitaro Sekine (Sci. Univ. of Tokyo, Japan)
3. *Generalized Poisson Process and  $1/f$ -Type Fluctuations in Computer Network Traffic*  
Noboru Hashimoto (Health Sci. Univ. of Hokkaido, Japan) and Norihito Toyota (Hokkaido Univ. of Info. Sci., Japan)
4. *Accurate Baseband Model for Sampling Phase-Locked Loop*  
Gy  za Kolumb  n (Tech. Univ. of Budapest, Hungary), B  la Frigyik (Tech. Univ. of Budapest, Hungary) and Michael P. Kennedy (Univ. College Dublin, Ireland)
5. *Quantitative Estimation of Walking in Blind Children with Multivariate Autoregressive Model*  
Kiyoshi Hoshino (Univ. of the Ryukyus, Japan Sci. and Tech. Co., Japan) and Akiyo Hoshino (Univ. of the Ryukyus, Japan)

**Session No.: 4-A-2****Regular Session:** Application of Chaos**Date:** 2, December **Time:** 9:00-10:40**Room:** 2**Chair:** Y. Nishio (Tokushima Univ.)

1. *Analog to Digital Conversion in Physical Measurement: Measurement via Chaos*  
Tomasz Kapitaniak (Technical Univ. of Lodz, Poland), Karol  . Zyczkowski (Jagi  onian Univ., Poland), Ulrike Feudel (Univ. Potsdam, Germany) and Celso Grebogi (Univ. of Maryland, USA)
2. *Design of Chaotic Binary Sequences with Prescribed Auto-Correlation Properties Based on Piecewise Monotonic Onto Maps*  
Akio Tsuneda (Kumamoto Univ., Japan)
3. *A Cryptosystem Using Two Chaotic Maps*  
Motoi HARADA (Tokushima Univ., Japan), Yoshifumi NISHIO (Tokushima Univ., Japan) and Akio USHIDA (Tokushima Univ., Japan)
4. *A Chaotic Cryptosystem Based on a Finite-State Baker's Map and its Security Analysis*  
Naoki Masuda (Univ. of Tokyo, Japan) and Kazuyuki Aihara (Univ. of Tokyo and CREST, Japan)
5. *Synchronization in Chaotic Systems*  
Federico I. Robbio (Univ. Nacional del Sur, Argentina), Eduardo E. Paolini (Univ. Nacional del Sur, Argentina) and Jorge L. Moiola (Univ. Nacional del Sur, Argentina)

**Session No.: 4-A-3****Regular Session:** Soliton and Waves**Date:** 2, December **Time:** 9:00-10:40**Room:** 3**Chair:** S. Watanabe (Yokohama National Univ.)

1. *Experiment on Single Hump Wave in Nonlinear LC Circuit with Dissipation*  
Norio Takabatake (Yokohama National Univ., Japan) and Shinsuke Watanabe (Yokohama National Univ., Japan)
2. *Self-Similarity in Communication Traffic Based on Burgers Equation*  
Shinsuke Watanabe (Yokohama National Univ., Japan), Hiroyuki Asano (Yokohama National Univ., Japan) and Koji Nakamichi (Fujitsu Laboratory, Japan)
3. *Generalized One-Dimensional Point Interaction in Quantum Mechanics*  
Takaomi Shigehara (Saitama Univ., Japan), Hiroshi Mizoguchi (Saitama Univ., Japan), Taketoshi Mishima (Saitama Univ., Japan) and Taksu Cheon (Kochi Univ. of Tech., Japan)

**Session No.: 4-A-4****Special Session:** Space-Time Chaos: Characterization, Synchronization, Control and Applications**Date:** 2, December **Time:** 9:00-12:40**Room:** 4**Organizer:** M. J. Ogorzalek (Univ. of Mining and Metallurgy)**Chair:** M. J. Ogorzalek (Univ. of Mining and Metallurgy)

1. *Modeling and Nonlinear Noise Reduction for Spatio-Temporal Systems*  
Jochen Br  cker (Univ. G  ttingen, Germany), Ulrich Parlitz (Univ. G  ttingen, Germany) and Christian Merkwirth (Univ. G  ttingen, Germany)
2. *Data Processing using Nonlinear Wave Propagation: the Meta-Stable State*  
Domine M. W. Leenaerts (Philips Research Laboratories, the Netherlands) and Konstantinos Doris (Technical Univ. Eindhoven, the Netherlands)
3. *Nonlinear Circuit for Data Protection in Smart Card*  
Riccardo Caponetto (ST-Microelectronics, Italy), G. Di Bernard (ST-Microelectronics, Italy), Mario Lavorgna (ST-Microelectronics, Italy), Luigi Occhipinti (ST-Microelectronics, Italy) and Gianguido Rizzotto (ST-Microelectronics, Italy)
4. *Characterization of Space-Time Chaos in Arrays of Nonlinear Circuits through Space-Mode Decomposition*  
Marco Gilli (Politecnico di Torino, Italy)



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5. Phase Synchronization in a One-Dimensional Array of Coupled Chaotic Circuits

Andrzej M. Dłabowski (Univ. of Mining and Metallurgy, Poland), Zbigniew Galias (Univ. of Mining and Metallurgy, Poland) and Maciej J. Ogorzalek (Univ. of Mining and Metallurgy, Poland)

6. Pattern Forming in Array of Nonlinear Not Equal Circuits

Manuela La Rosa (Univ. of Catania, Italy), Luigi Fortuna (Univ. of Catania, Italy), Alessandro Rizzo (Univ. of Catania, Italy) and Maria Gabriella Xibilia (Univ. of Messina, Italy)

7. Inferring Synchronization from Multivariate Data

Juergen Kurths (Univ. Potsdam, Germany) and Michael Rosenblum (Univ. Potsdam, Germany)

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**Date:** 2, December **Time:** 9:00-12:40

**Room:** 5

**Chair:** I. W. Sandberg (Univ. of Texas)

1. A Fixed Point Theorem for System of Set-Valued Mappings and its Applications

Kazuo Horiuchi (Waseda Univ., Japan)

2. Functional Pair Mapping to Characterize Operators in Banach Spaces

Masachika Miyata (Kanazawa Inst. of Tech., Japan)

3. Functional Analysis of Unit Periodic Functions as an Operator on Gamma and Related Functions

Harry C. Gundrum (Purdue Univ., USA) and Maher Rizkalla (Purdue Univ., USA)

4. The Circle Criterion and Almost Periodic Inputs

Irwin W. Sandberg (Univ. of Texas, USA)

5. Adaptive Control of Averaging Operators on Geodesics with the Enhancement of Gradient Descent or Ascent

Yukio HAYASHI (JAIST, Hokuriku, Japan)

6. On the Monodromy Matrix for a Class of Dynamical Systems

Dmitry A. Altshuller (Lucent Technologies, Inc., USA)

7. Joint Diagonalization and Matrix Differential Equations

Gen Hori (RIKEN, Japan)

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**Session No.: 4-B-1**

**Regular Session:** Circuits and Systems II

**Date:** 2, December **Time:** 11:00-12:40

**Room:** 1

**Chair:** A. Tsuneda (Kumamoto Univ.)

1. A Method for Synthesizing Multi-Input Multi-Output Variable Circuits with Separable-Denominator

Atsushi Kawakami (Kanazawa Inst. of Tech., Japan)

2. A Study on the Relationship between Stability of DC Operating Points and Parasitic Reactances in Transistor Circuits

Masato Ogata (Kyushu Univ., Japan) and Tetsuo Nishi (Kyushu Univ., Japan)

3. The  $\mathbb{S}$ -Spanner Problem in a Flow Network

Kaoru Watanabe (Osaka Electro-Communication Univ., Japan), Masakazu Sengoku (Niigata Univ., Japan), Hiroshi Tamura (Niigata Inst. of Tech., Japan) and Shoji Shinoda (Chuo Univ., Japan)

4. Transfinite Permissive Monotone Networks with End-Structured Connections

Armen H. Zemanian (SUNY at Stony Brook, USA)

5. Dependency Relations Available for Parameter-Value Determination

Isao Yamaguchi (Tokai Univ., Japan), Kazuo Kaneko (Japan Eng. Company, Japan), Ray Chen (San Jose State Univ., USA), Tetsuo Kagami (Chuo Univ., Japan) and Shoji Shinoda (Chuo Univ., Japan)

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**Session No.: 4-B-2**

**Regular Session:** Oscillatory Neural Networks

**Date:** 2, December **Time:** 11:00-12:40

**Room:** 2

**Chair:** M. Nakagawa (Nagaoka Univ. of Tech.)

1. Floating Resistors as Synaptic Weights in the Analog Neural Networks

Shashidhar Tantry (Shizuoka Univ., Japan), Teru Yoneyama (Shizuoka Univ., Japan) and Hideki Asai (Shizuoka Univ., Japan)

2. Design of Hysteresis Neural Networks for Limit Cycle Generator

Teru Yoneyama (Shizuoka Univ., Japan), Hiroshi Ninomiya (Shonan Inst. of Tech., Japan) and Hideki Asai (Shizuoka Univ., Japan)

3. A Phase-Rate Neural Network for Image Segmentation

Haruhisa Takahashi (Univ. of Electro-Communications, Japan)

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**Session No.: 4-B-3**

**Regular Session:** Blind Separation

**Date:** 2, December **Time:** 11:00-12:40

**Room:** 3

**Chair:** A. Cichocki (BSI, RIKEN)

1. Semiparametric Approach to Blind Separation of Dynamic Systems

- L. -Q. Zhang (BSI, RIKEN, Japan), Andrzej Cichocki (BSI, RIKEN, Japan) and Shun-ichi Amari (BSI, RIKEN, Japan)
- The Study of Data Sampling by Using ICA  
Akihiko Nose (Sophia Univ., Japan) and Mamoru Tanaka (Sophia Univ., Japan)
  - Blind Image Deconvolution with Interband Prediction via Adaptive Simulated Annealing  
Makoto Matsuyama (Sophia Univ., Japan), Yuichi Tanji (Sophia Univ., Japan) and Mamoru Tanaka (Sophia Univ., Japan)
  - Independent Source Separation and Localization for Single-Trial Magnetoencephalographic Data  
Jianting Cao (Sophia Univ., Japan), Noboru Murata (RIKEN, Japan), Shun-ichi Amari (RIKEN, Japan), Andrzej Cichocki (RIKEN, Japan), Tsunehiro Takata (Univ. of Tokyo, Japan), Hiroshi Endo (National Inst. of Bioscience and Human-Tech., Japan) and Nobuyoshi Harada (National Inst. of Bioscience and Human-Tech., Japan)
  - View-Point Invariant Object Recognition using Independent Component Analysis  
Abderrahim Labbi (Univ. of Geneva, Switzerland), Holger Bosch (Univ. of Geneva, Switzerland), Christian Pellegrini (Univ. of Geneva, Switzerland) and Wulfram Gerstner (EPFL, Switzerland)

**Session No.: 4-C-1****Regular Session: Modeling and Simulation I****Date: 2, December Time: 14:00-15:40****Room: 1****Chair: M. Green (Univ. of California, Irvine)**

- Transient Analysis of Nonlinear System Described by Volterra Model via Mathematical Manipulation Program  
Satoshi ICHIKAWA (Kyoto Univ., Japan) and Tsuyoshi WADA (Kyoto Univ., Japan)
- Time-Domain Model Synthesis of Three-Dimensional Interconnects Based on Finite-Difference Frequency-Domain Method  
Takayuki Watanabe (Shizuoka Univ., Japan) and Hideki Asai (Shizuoka Univ., Japan)
- Development of Framework for Synthesis of Time-Domain Models and Transient Simulation of 3-D Interconnects  
Hirofumi Miyashita (Shizuoka Univ., Japan), Takayuki Watanabe (Shizuoka Univ., Japan) and Hideki Asai (Shizuoka Univ., Japan)
- ASSIST- $\beta$ : An Application of Analog Behavioral Description by C/C++ Language to ASSIST  
Tsutomu Yoshimi (Shizuoka Univ., Japan), Takayuki Watanabe (Shizuoka Univ., Japan), Hiroshi Sagesaka (Shizuoka Univ., Japan), Akinobu Nishio (Shizuoka Univ., Japan) and Hideki Asai (Shizuoka Univ., Japan)
- The Nonlinear Limits of Linear Modeling Mixed-Signal Integrated Circuits  
Carsten Wegener (Univ. College Dublin, Ireland) and Michael P. Kennedy (Univ. College Dublin, Ireland)

**Session No.: 4-C-3****Regular Session: Control****Date: 2, December Time: 14:00-15:40****Room: 3****Chair: T. Kawabe (Univ. of Tsukuba)**

- Amplitude Control of Oscillations in Nonlinear Circuits  
Jorge L. Moiola (Univ. Nacional del Sur, Argentina) and Mirta S. Pavdin (Univ. Nacional de Patagonia Austral, Argentina)
- Model-Switching Adaptive Control of Plants with Backlash Hysteresis  
Shuichi Kurogi (Kyushu Inst. of Tech., Japan) and Makoto Tou (Kyushu Inst. of Tech., Japan)
- Model-Switching Adaptive Control Using Competitive Associative Net  
Shuichi Kurogi (Kyushu Inst. of Tech., Japan), Hisashi Hirata (Kyushu Inst. of Tech., Japan), Takeshi Nishida (Kyushu Inst. of Tech., Japan) and Takako Sakamoto (Kyushu Inst. of Tech., Japan)
- Existence of Common Stabilizers for a Class of Linear Control Systems  
Der-Cherng Liaw (National Chiao Tung Univ., Taiwan) and Yew-Wen Liang (National Chiao Tung Univ., Taiwan)
- Nonlinear Motion Control of Nonholonomic 2 Wheeled Car  
Susumu Yoshizawa (Univ. of Tsukuba, Japan), Tohru Kawabe (Univ. of Tsukuba, Japan) and Sadaaki Miyamoto (Univ. of Tsukuba, Japan)

**Session No.: 4-C-4****Special Session: Synchronization in Coupled Dynamical Systems****Date: 2, December Time: 14:00-17:40****Room: 4****Organizer: Y. Nishio (Tokushima Univ.) and K. Jin'no (Nippon Inst. of Tech.)****Chair: Y. Nishio (Tokushima Univ.) and K. Jin'no (Nippon Inst. of Tech.)**

- Mutual Synchronization of BVP Oscillators under Asymmetrical Coupling  
Reiko Kai (Tokushima Univ., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
- Analysis of Coupled Nonidentical Neural Oscillators  
Hirofumi Nagashino (Tokushima Univ., Japan), Koji Kawamoto (Tokushima Univ., Japan) and Yohsuke Kinouchi (Tokushima Univ., Japan)
- Rhythmic Patterns Observed in Neural Oscillators with Ring Connection  
Yoshihiro Nakano (Tokushima Univ., Japan), Yuichi Nakamura (Tokushima Univ., Japan) and Hiroshi Kawakami (Tokushima Univ., Japan)
- Synchronization and Pattern Formation in a Large Size of Coupled Oscillators Networks  
Seiichiro Moro (Fukui Univ., Japan)
- Analysis of Phase Difference Propagation in Oscillators Coupled by Inductors as a Ladder  
Masayuki Yamauchi (Tokushima Univ., Japan), Masahiro Wada (Tokushima Univ., Japan), Yoshifumi Nishio (Tokushima Univ., Japan) and Akio Ushida (Tokushima Univ., Japan)
- Hysteresis Cellular Automata  
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- Riddled Basins of Globally Coupled Chaotic Maps

- Koji Okuda (Hokkaido Univ., Japan) and Takumi Kobayasi (Hokkaido Univ., Japan)
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Tomomasa Nagashima (Muran Inst. of Tech., Japan), Takashi Uematsu (Muran Inst. of Tech., Japan), Isao Tokuda (Muran Inst. of Tech., Japan) and Norikazu Hatakeyama (Muran Inst. of Tech., Japan)

**Session No.: 4-C-5****Special Session:** Mobile Communication (1)**Date:** 2, December **Time:** 14:00-15:40**Room:** 5**Organizer:** M. Sengoku (Niigata Univ.)**Chair:** T. Kobayashi (YRP Key Tech Labs)

1. *Performance of a Robust Packet Switched TDD System*  
Hong-Hui Chen (Gemplus Technologies Asia Pte. Ltd., Singapore) and Lawrence Wai-Choong Wong (National Univ. of Singapore, Singapore)
2. *Some Characteristics of Multi-hop Wireless Networks*  
Keisuke Nakano (Niigata Univ., Japan), Masakazu Sengoku (Niigata Univ., Japan) and Shoji Shinoda (Chuo Univ., Japan)
3. *Server, Network and User Adaptivity in Multimedia Networks*  
Yoshikuni Onozato (Gunma Univ., Japan), Ushio Yamamoto (Gunma Univ., Japan), Julie A. McCann (City Univ., U.K.), Geoff R. Dowling (City Univ., U.K.), Michael Schroeder (City Univ., UK), Andrew Tuson (City Univ., U.K.), Natawut Nupairoj (Chulalongkorn Univ., Thailand), Konosuke Kawashima (NTT AT, Japan) and Masaki Aida (NTT AT, Japan)
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**Session No.: 4-D-1****Regular Session:** Modeling and Simulation II**Date:** 2, December **Time:** 16:00-17:40**Room:** 1**Chair:** K. Yamamura (Chuo Univ.)

1. *A Homotopy Method by Using Hyper-Ellipsoid under Tracing Solution Path*  
Sachiko Nagumo (Chuo Univ., Japan) and Mitsunori Makino (Chuo Univ., Japan)
2. *Pitchfork Bifurcations and Construction of Threading Homotopies for DC Operating Point Analysis*  
Ecevit Yilmaz (Univ. of California at Irvine, USA) and Michael M. Green (Univ. of California at Irvine, USA)
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Kiyotaka Yamamura (Chuo Univ., Japan)
4. *Numerical Verification of Nonexistence of Solutions for Nonlinear Equations and its Application to All Solutions Algorithm*  
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Janne Roos (Helsinki Univ. of Tech., Finland)

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Masahiro Sakamoto (Hiroshima City Univ., Japan) and Mititada Morisue (Hiroshima City Univ., Japan)
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Andrzej Cichocki (RIKEN, Japan), Sergiy Anatoliyovich Vorobyov (RIKEN, Japan) and Tomasz Rutkowski (RIKEN, Japan)
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**Session No.:** 4-D-5

**Special Session:** Mobile Communication (2)

**Date:** 2, December **Time:** 16:00-17:40

**Room:** 5

**Organizer:** M. Sengoku (Niigata Univ.)

**Chair:** W. C. Wong (National Univ. of Singapore)

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Takehiko Kobayashi (YRP Key Tech Labs, Japan)
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**SHORT NOTES****4560-4561 : Anomalous AC Electric Conductivity in  $(\text{NH}_4)_3\text{H}(\text{SeO}_4)_2$** 

Kazuo Furukawa, Shin Akahoshi, Takanori Fukami and Kenzi Hukuda

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